SHARP SERVICE MANUAL

No. S6845CDC471W/

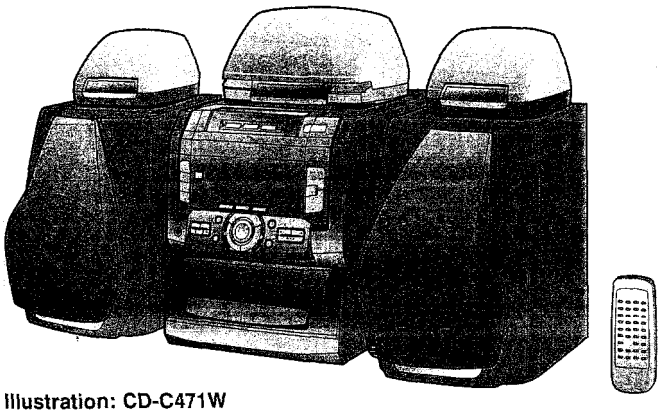

Illustration: CD-C471W

CD-C471W

CD-C471 W mini component system consisting of CD-C471 W mini component system, front (CP-C471), senter (GBOXS0006AWM6)and surround(GBOXS0007AWM6) Speaker System.

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

COMPACT disc DIGITAL AUDIO

DOLBY SURROUND PRO LOGIC

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SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

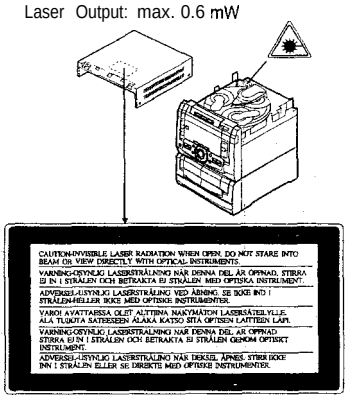
SAFETY PRECAUTION FOR SERVICE MANUAL

Precaution to be taken when replacing and servicing the Laser Pickup.

The AEL (Accessible Emission Level) of Laser Power Output for this model is specified to belowerthan Class I Requirements. However, the following precautions must be observed during servicing to protect your eyes against exposure to the Laser beam

(1) When the cabinet has been removed, the power is turned on without a compact disc, and the Pickup is on a position outerthan the lead-in position, the Laser will lightforseveral seconds to detect a disc, Do not look into the Pickup Lens.
(2) The Laser Power Output of the Pickup inside the unit and replacement service parts have already been adjusted prior to shipping.
(3) No adjustment to the Laser Power should be attempted when replacing or servicing the Pickup.
(4) Under no circumstances look directly into the Pickup Lens at any time.
(5) CAUTION - Use of controls or adjustments, or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Laser Diode Properties
Material: GaAlAs
Wavelength. 780 nm
Emission Duration: continuous
Laser Output: max. 0.6 mW



CAUTION

CLASS 1 LASER PRODUCT
APPAREIL À LASER DE CLASSE 1
PRODUCTO LASER DE CLASE 1

- This Mini Component System is classified as a CLASS 1 LASER product.
- The CLASS 1 LASER PRODUCT label is located on the rear cover.
- Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

VOLTAGE SELECTION

The voltage selector is located on the AC voltage selector box. If adjustment is necessary, use a screwdriver in order to turn the selector in either direction the correct voltage figure is displayed in the window next to the adjustment screw.

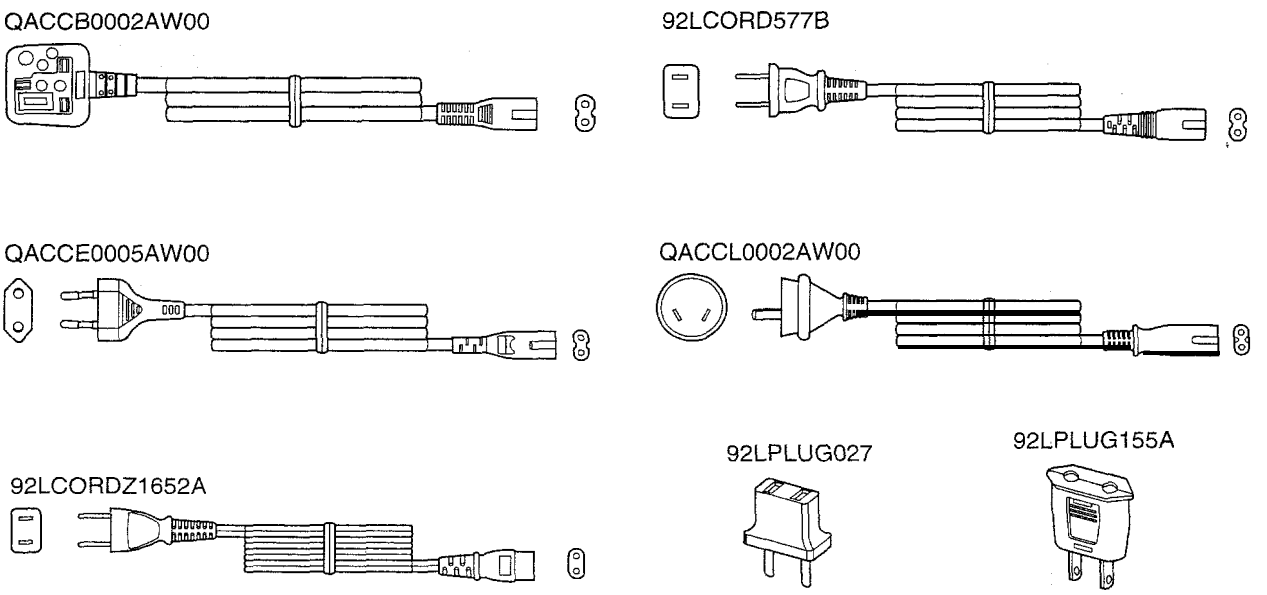


Figure 2 POWER SUPPLY CORD AND PLUG ADAPTOR

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

SPECIFICATIONS

CD-C471W

● General

Power source: AC 11 0/127/220/230-240 V, **50160** Hz
Power consumption: 112w
Dimensions: Width; 270 mm (1 0-5/8")
Height; 303 mm (1 l-l 3/16")
Depth; 350 mm (13-13/16")
Weight: 7.1 kg (15.3 lbs.)

● Amplifier section

Output power: PMPO; 1,000 W (total)
Front speakers;
MPO; 176 W (88 W + 88 W)
(10 % T.H.D.)
RMS; 80 W (40 W + 40 W)
(10 % T.H.D.)
Center speaker;
MPO; 32 W (10 % T.H.D.)
RMS; 20 W (10 % T.H.D.)
Surround speakers;
MPO; 32 W (10 % T.H.D.)
RMS; 20 W (10 % T.H.D.)
Input terminals: Video/Auxiliary (audio signal) x 2;
500 mV/47 kohms
Output terminals: Front speakers; 6 ohms
Center speakers; 4 ohms
Surround Speakers; 8 ohms
Headphones; 16-50 ohms
(recommended; 32 ohms)

● Compact disc player section

Type: 3-disc multi-play compact disc player
Signal readout: Non-contact, 3-beam semi-conductor laser pickup
D/A Converter: 1 -bit D/A converter
Frequency response: **20 - 20,000** Hz
Dynamic range: 90 dB (1kHz)

● Tuner section

Frequency range: FM; 88 - 108 MHz
AM; 531 - 1,602 kHz

● Cassette deck section

Type: Compact cassette tape
Frequency response: 50 - 14,000 Hz (Normal tape)
Motor: DC motor with electronic governor x 1
Signal/noise ratio: 55 dB (TAPE 1, playback)
50 dB (TAPE 2, recording/playback)
Bias and erasure system: AC
Tape speed: **4.76** cm/sec. (l-718 ips)
Wow and flutter: 0.15 % (WRMS)
Heads: TAPE-l : Playback x 1
TAPE-2: Record/playback x 1
Erase x 1

CP-C471

● Front speaker section

Type: 3-way type [130 mm (5-1/8") woofer, 50 mm (2") tweeter and super tweeter]
Maximum input power: **80** W
Impedance: **6** ohms
Dimensions: Width; 200 mm (7-7/8")
Height; 300 mm (11-13/16")
Depth; 253 mm (10")
Weight: 2.7 kg (5.8 lbs.)/each

(GBOXS0006AWM6)

● Center speaker section

Type: 100 mm (4") full-range speaker
Maximum input power: **40** W
Impedance: **4** ohms
Dimensions: Width; 262 mm (1 0-5/16")
Height; 145 mm (5-3/4")
Depth; 201 mm (7-15/16")
Weight: 1.2 kg (2.6 lbs.)/each

(GBOXS0007AWM6)

● Surround speaker section

Type: 100 mm (4") full-range speaker
Maximum input power: **20** W
Impedance: **8** ohms
Dimensions: Width; 170 mm (6-3/4")
Height; 122 mm (4-l 3/16")
Depth; 176 mm (6-15/16")
Weight: 0.7 kg (1.5 lbs.)/each

Specifications for this model are subject to change without prior notice.

NAMES OF PARTS

CD-C471W

■ Front Panel

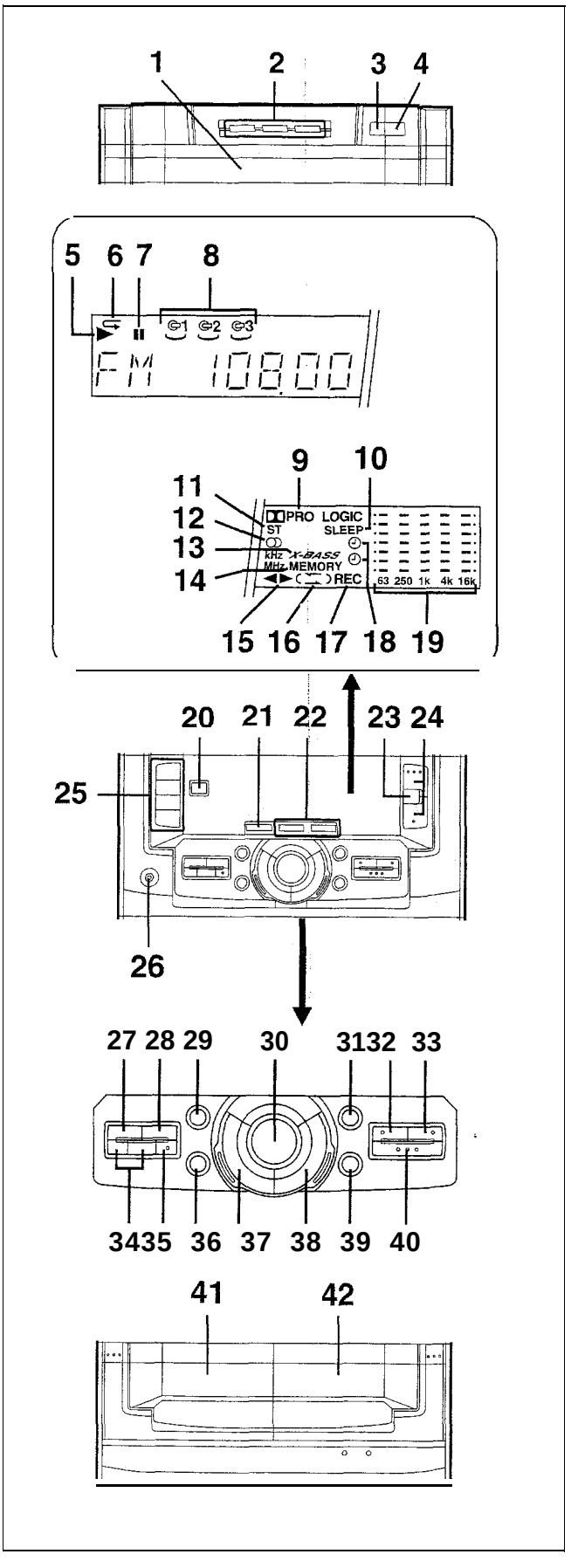
1. (CD) Disc Tray
2. (CD) Disc Number Select Buttons
3. (CD) Disc Skip Button
4. (CD) Open/Close Button: ▲

5. (CD) Play Indicator: ▶
6. (CD) Repeat Indicator: ⮌
7. (CD) Pause Indicator: ❚❚
8. (CD) Disc Number Indicators
9. Dolby Pro Logic Indicator
10. Sleep Indicator
11. (TUNER) FM Stereo Mode Indicator: ST
12. (TUNER) FM Stereo Indicator: ◯◯
13. Extra Bass Indicator: X-BASS
14. (CD/TUNER) Memory Indicator
15. (TAPE) Direction Indicators
16. (TAPES) Reverse Mode indicator: ⮌
17. (TAPE2) Record indicator
18. Timer Indicator
19. Spectrum Analyzer/Volume Level/Balance Indicator

20. On/Stand-by Button
21. Bypass Button
22. Center Mode Buttons: NORMAL/PHANTOM
23. Extra Bass Button: X-BASS
24. Volume Up/Down Buttons: △/▽
25. Function Selector Buttons
26. Headphone Socket

27. Clock Button
28. Timer/Sleep Button
29. (TAPES) Record Pause Button: ● ❚❚
30. (CD/TAPE) Stop Button: ■
31. Equalizer Selector/Demo Mode Button
32. CD Edit Button
33. Tape 1 Edit Button
34. Tuning and Time Up/Down Buttons: ∨/∧
35. Memory/Set Button
36. (CD) Track Down/Review Button: ◀◀/|◀◀
    (TUNER) Preset Down Button: ◀◀/|◀◀
    (TAPE2) Fast Wind Button: ◀◀
37. (TAPE 2) Reverse Play Button: ◀
38. (TAPE 1) Play Button: ▶
    (TAPE 2) Forward Play Button: ▶
    (CD) Play/Repeat Button: ▶ ⮌
39. (CD) Track Up/Cue Button: ▶▶/▶▶|
    (TUNER) Preset Up Button: ▶▶/▶▶|
    (TAPE2) Fast Wind Button: ▶▶
40. (TAPES) Reverse Mode Button

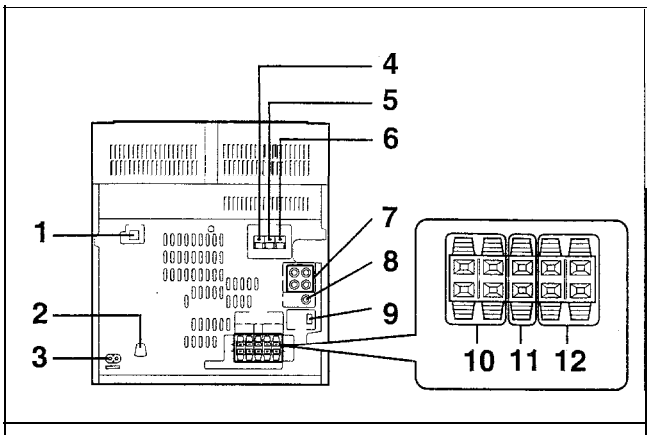
41. (TAPE 1) Cassette Compartment
42. (TAPE 2) Cassette Compartment



CD-C471W

■ Rear Panel

1. CD Digital Output Socket
2. AC Voltage Selector
3. AC Power Input Socket
4. AM Aerial Terminal
5. Aerial Earth Terminal
6. FM 75 Ohms Aerial Terminal
7. Video/Auxiliary (Audio Signal) Input Sockets
8. Sub Woofer Output Socket
9. Span Selector Switch
10. Front Speaker Terminals
11. Center Speaker Terminals
12. Surround Speaker Terminals



■ Speaker Section

● Front Speaker

CP-C471

1. Super Tweeter
2. Tweeter
3. Woofer
4. Bass Reflax Duct
5. Speaker Wire

● Center Speaker

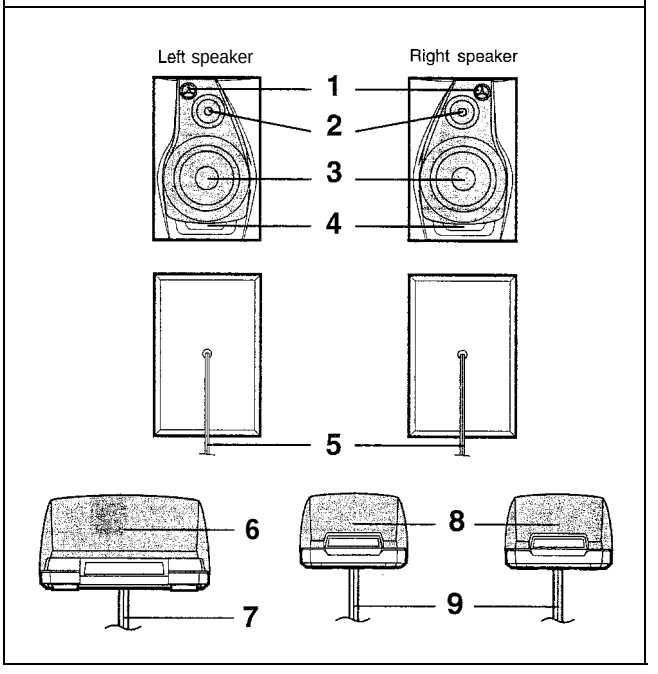
GBOXS0006AWM6

6. Full-Range Speaker
7. Speaker Wire

● Surround Speaker

GBOXS0007AWM6

8. Full-Range Speaker
9. Speaker Wire



CD-C471W

■ Remote Control

1. Remote Control Transmitter LED
2. Surround Level Buttons: ∨/∧
3. Center Level Buttons: ∨/∧
4. Dolby Pro Logic Button
5. Center Mode Button
6. Test Tone Button
7. Balance Control Buttons: </>

● Tuner control section

8. Preset Up/Down Button: ∨/∧

● CD Control section

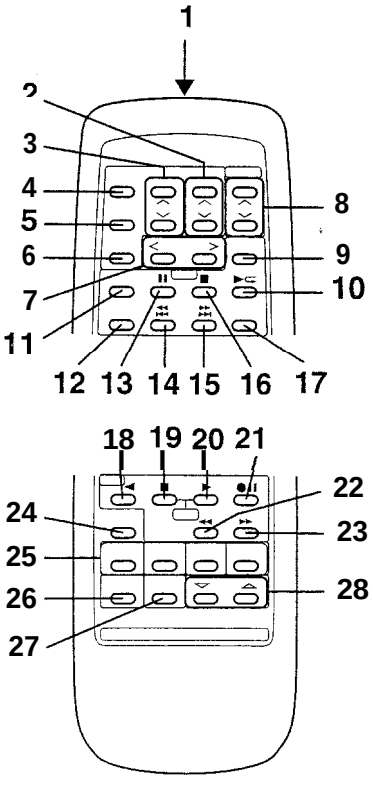
9. Disc Skip Button
10. Play/Repeat Button: ▶⊂
11. Memory Button
12. Clear Button
13. Pause Button: ❚❚
14. Track Down/Review Button: ◀◀/|◀◀
15. Track Up/Cue Button: ▶▶/▶▶|
16. Stop Button: ❑
17. Random Button

● Tape control section

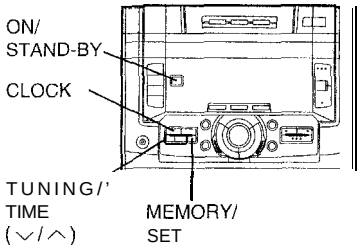
18. (TAPE 2) Reverse Play Button: ◀
19. (TAPE 1/2) Stop Button: ■
20. (TAPE 1) Play Button/
    (TAPE 2) Forward Play Button: ▶
21. (TAPE 2) Record Pause Button: ●❚❚
22. (TAPE 2) Fast Wind Button: ◀◀
23. (TAPE 2) Fast Wind Button: ▶▶

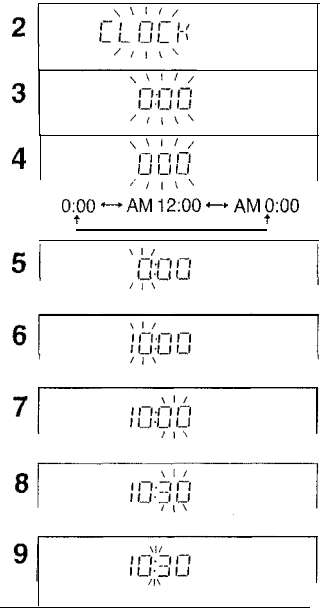
● Common section

24. Equalizer Mode Button
25. Function Selector Buttons
26. On/Stand-by Button
27. Extra Bass Button: X-BASS
28. Volume Up/Down Buttons: ▽/△



In this example, the clock is set for the 24-hour (0:00) system.





1 Press the ON/STAND-BY button to enter the stand-by mode.

2 Press the CLOCK button.

3 Within 5 seconds, press the MEMORY/SET button.

4 Press the TUNING/TIME (∨ or ∧) button to select the time display mode.

"0:00" → The 24-hour display will appear. (0:00 23:59)
"AM 12:00" → The 12-hour display will appear. (AM or PM 12:00 11:59)
"AM 0:00" → The 12-hour display will appear. (AM or PM 0:00 - 11:59)

- Note that this can only be set when the unit is first installed or it has been reset (see page 30).

5 Press the MEMORY/SET button.

6 Press the TUNING/TIME (∨ or ∧) button to adjust the hour.

- Press the TUNING/TIME (∨ or ∧) button once to advance the time by 1 hour. Press for more than 0.5 seconds to advance continuously.
- When the 12-hour display is selected, "AM" will change automatically to "PM".

7 Press the MEMORY/SET button.

8 Press the TUNING/TIME (∨ or ∧) button to adjust the minutes.

- Press the button for at least 0.5 seconds to change the time in 5-minute intervals.
- The hour setting will not advance even if minutes advance from "59" to "00".

9 Press the MEMORY/SET button

- The clock starts operating from "0" seconds. (Seconds are not displayed.)

Note:

- In the event of a power failure or when the AC power lead is disconnected, the clock display will go out. When the AC power supply is restored, the clock display will flash on and off to indicate the time when the power failure occurred or when the AC power lead was disconnected. If this happens, follow the procedure below to change the clock time.

To change the clock time:

When the unit is in the stand-by mode:

- When the unit is in the demonstration mode, press the DEMO button to enter the clock mode.

① Press the MEMORY/SET button
② Perform steps 6 - 9 above.

When the unit is on:

① Press the CLOCK button.
② Within 5 seconds, press the MEMORY/SET button
③ Perform steps 6 - 9 above.

To see the time display:

Press the CLOCK button.

- The time display will appear for about 5 seconds

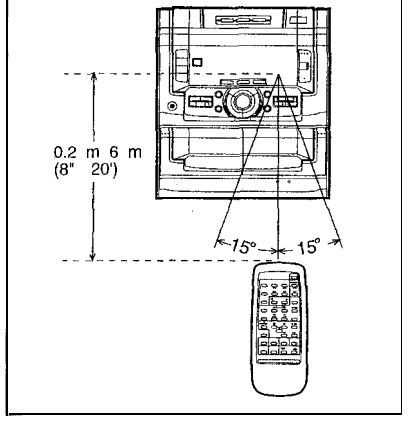
To change the time display mode:

① Press the ON/STAND-BY button to enter the stand-by mode.
② Whilst pressing down the VOLUME ∨ button and the TUNING/TIME ∧ button, hold down the ON/STAND-BY button for at least 1 second.
③ Perform steps 6 - 9 above.

Caution:

- The operation explained above will erase all data stored in memory including clock and timer settings, and tuner and CD presets.

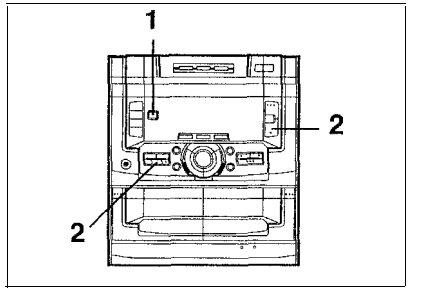
REMOTE CONTROL



Notes concerning use:

- Replace the batteries if the operating distance becomes reduced or if operation becomes erratic.
- Periodically clean the transmitter LED on the remote control and the sensor on the main unit with a soft cloth.
- Exposing the sensor on the main unit to strong light may interfere with operation. Change the lighting or the direction of the unit.
- Keep the remote control away from moisture, excessive heat, shock, and vibrations.

MICROCOMPUTER



Reset the microcomputer under the following conditions:

- To erase all of the stored memory contents (clock and timer settings, and tuner and CD presets).
- If the display is not correct.
- If the operation is not correct.

Note:

- To erase the tuner preset memory, see "To erase all of the contents of preset memory" on page 18.

1 Press the ON/STAND-BY button to enter the stand-by mode

2 While pressing down the VOLUME ∨ button and the TUNING/TIME ∧ button, hold down the ON/STAND-BY button for at least 1 second.

DISASSEMBLY

Caution on Disassembly

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

1. Take cassette tape and compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need to be removed when disassembling the unit. Afterservicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take suffcient care on static electricity of integrated circuits and other circuits when servicing.

CD-C471H

ITEF	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw ..... (Al) x4	7-1
2	Side Panel (Left/right)	1. Screw ..... (B1) x6	7-I
3	CD Player Unit/ CD Tray Cover	1. Turn on the power supply, open the disc tray, take out the CD cover, and close. (Note 1) 2. Hook ..... (CI) x3 3. Hook ..... (C2) x2 4. Screw ..... (C3) xI 5. Socket ..... (C4) x3	7-2
4	Back Board	1. Screw ..... (D1) x13 2. Socket ..... (D2) xI	8-1
5	Tuner PWB	1. Screw ..... (EI) xI 2. Socet ..... (E2) xI	8-I
6	Main PWB	1. Screw ..... (F1) xI 2. Socket ..... (F2) x2 3. Flat Wire.. ..... (F3) x2 4. Tip Wire.. ..... (F4) xI 5. Socket ..... (F5) xI	a-2
7	Front Panel	1. Screw ..... (G1) x2 2. Hook.. ..... (G2) x2	8-2
8	Display PWB/ Switch PWB	1. Screw ..... (H1) x12	a-3
9	Tape Mechanism	1. Open the cassette holder. 2. Screw ..... (J1) x5	a-3
10	Power Amp. PWE	1. Screw ..... (K1) x4 2. Socket ..... (K2) x2 3. Push Rivet ..... (K3) x4	8-4
11	CD Servo PWB	1. Screw ..... (L1) xI 2. Cover ..... (L2) x4	8-5
12	Turntable	1. Screw ..... (MI) xI 2. Cover ..... (M2) xI	8-6
13	CD Player Base	1. Screw ..... (N1) x2 2. Guide ..... (N2) x2	8-6
14	CD Changer Mechanism	1. Screw ..... (PI) x4	8-7
15	CD Mechanism	1. Screw ..... (Q1) xI	8-7

Note 1:

How to open the changer manually. (Fig.7-3)

1. Insert the tip of fine screwdriver into the hole of CD player base, and press down the worm wheel < A >
2. Then, turn fully the lock lever in the arrow direction through the hole on the loading chassis bottom in this state. After that, push forward the CD player base.

CD-C471W

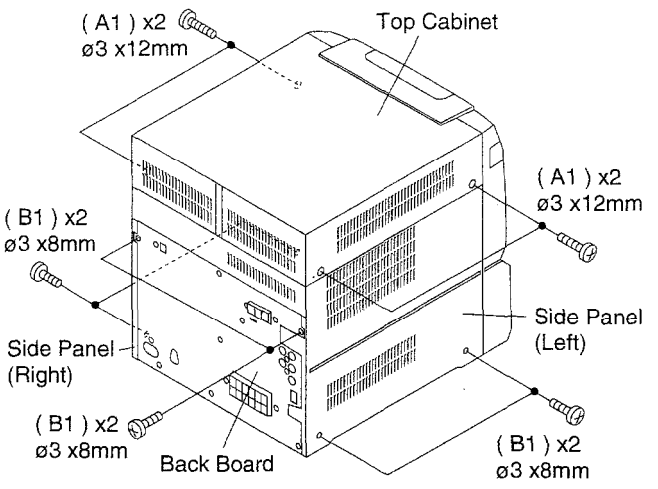


Figure 7-1

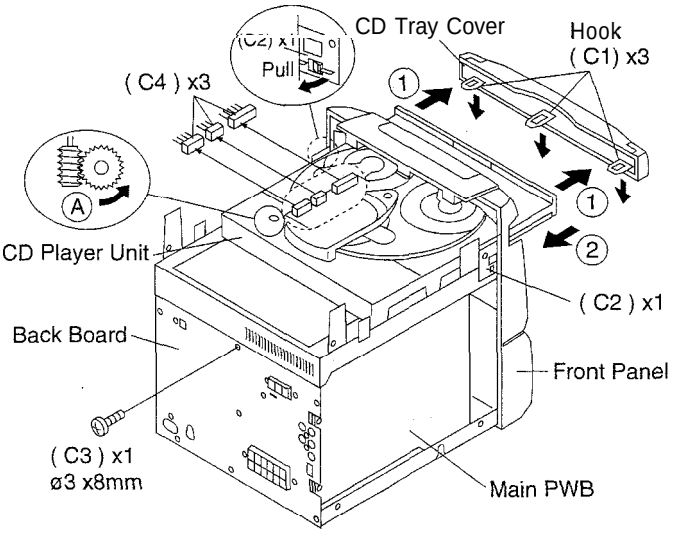


Figure 7-2

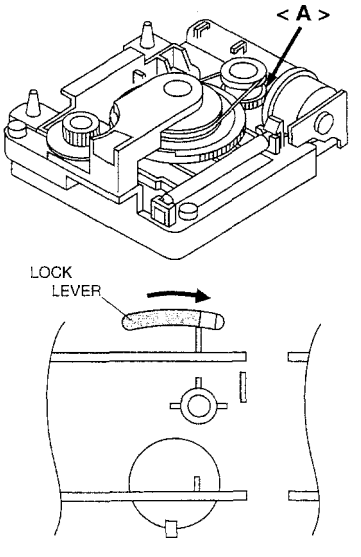


Figure 7-3

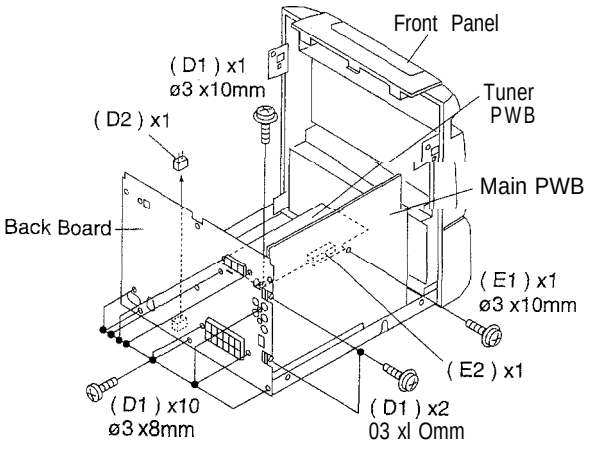


Figure 8-1

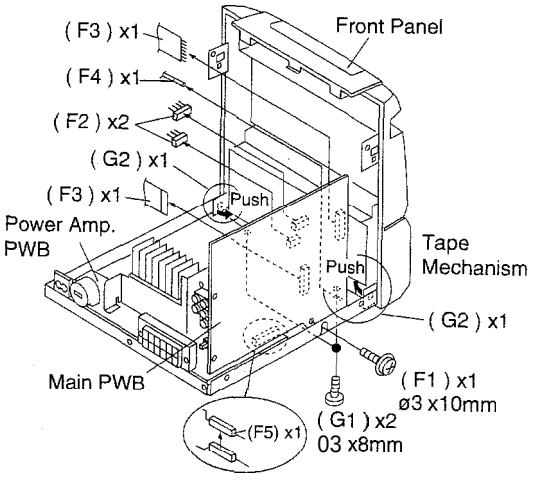


Figure 8-2

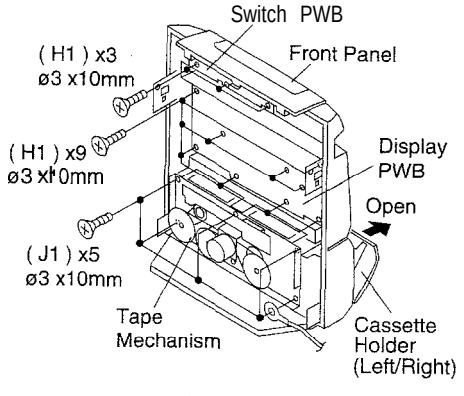


Figure 8-3

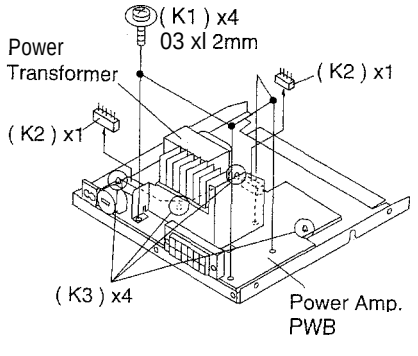


Figure 8-4

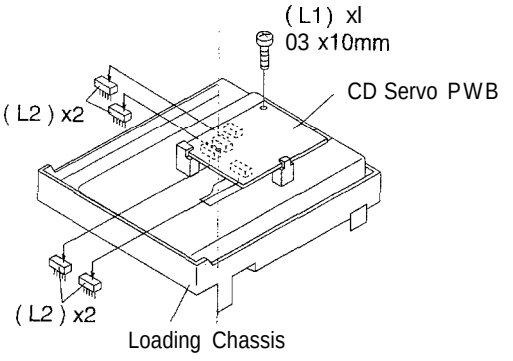


Figure 8-5

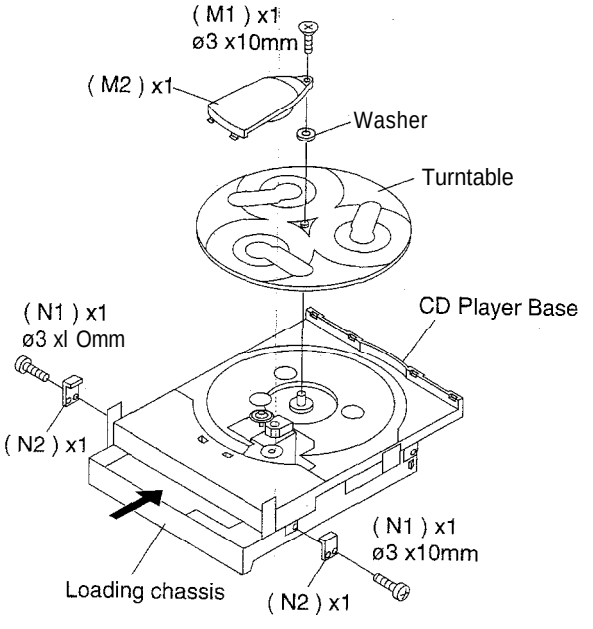
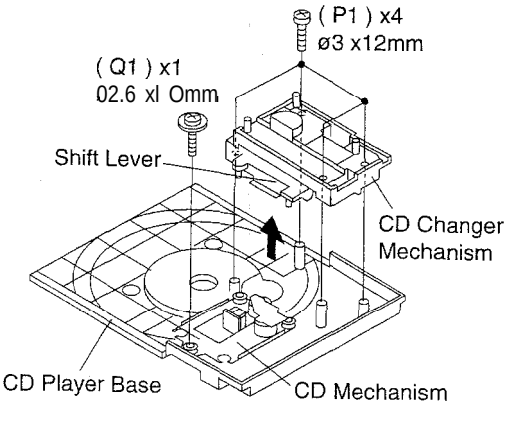


Figure 8-6



Be careful when installing the CD changer mechanism. Install the CD changer mechanism on the CD player base after the shift lever has been set in the highest position.

Figure 8-7

CP-C471

FIGURE	REMOVAL	PROCEDURE
9-1	ront Speaker	1 Net ..... (Al) xl
		2. Fromt Panel ..... (A2) xl
9-2		3. Screw ..... (A3) x2
		4. Screw ..... (A4) x4
		5. Screw ..... (A5) x2

Note:
The center and SURROUND speakers can be easily disassembled. Therefore the disassembling method is not discribed. For details refer to the disassembling drawing in the Parts Guide.

CP-C471

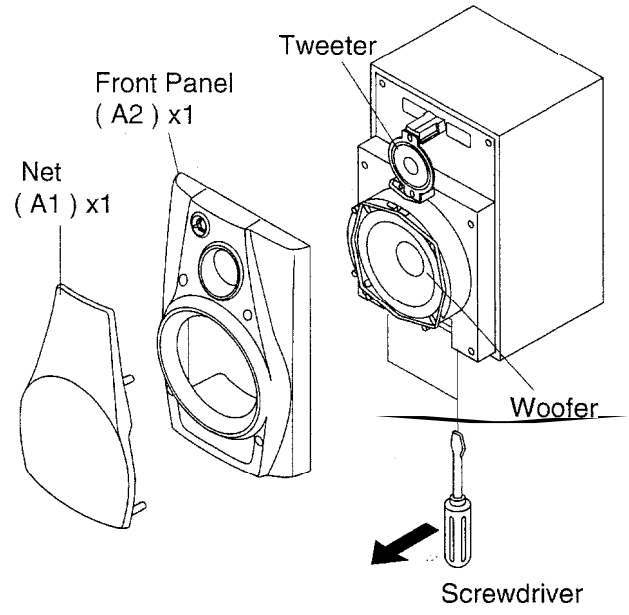


Figure 9-1

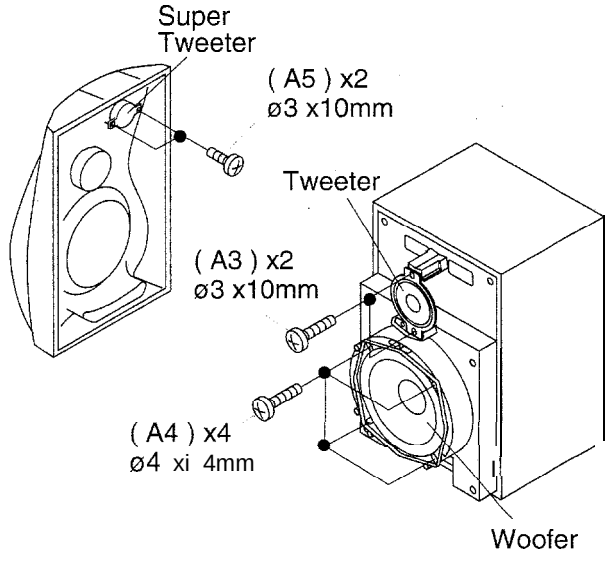


Figure 9-2

REMOVING AND REINSTALLING THE MAIN PARTS

CD MECHANISM SECTION

Perform steps 1, 2, 3, 14 and 15 of the disassembly method to remove the CD mechanism.

How to remove the turntable up/down motor (See Fig. 10-1)

1. Remove the screws (Al) x 2 pcs., to remove the turntable up/down motor.

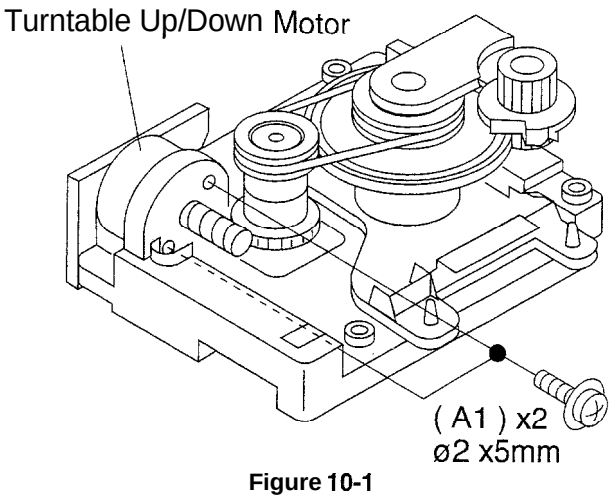


Figure 10-1

How to remove the pickup (See Fig. 10-2)

1. Remove the screws (B1) x 2 pcs., to remove the shaft (B2) x I pc.
2. Remove the stop washer (B3) x 1pc., to remove the gear (B4) x 1 pc.
3. Remove the pickup.

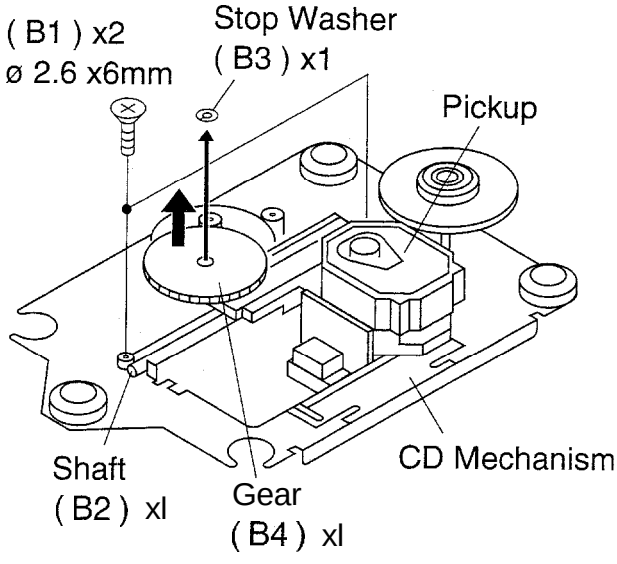


Figure 10-2

ADJUSTMENT

MECHANISM SECTION

• **Driving Force Check**

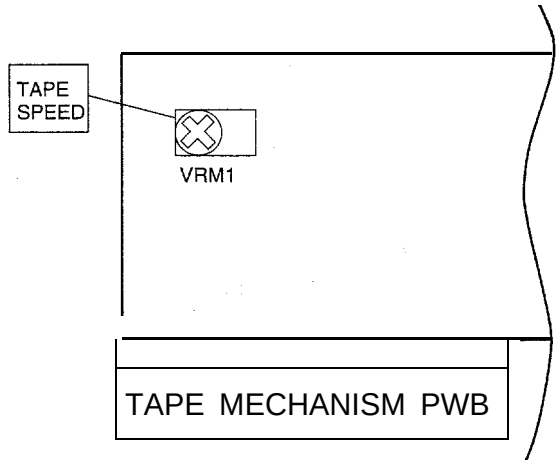
Torque Meter	Specified Value
Play: TW-2412	Tape 1: Over 80 g Tape 2: Over 80 g

• **Torque Check**

Torque Meter	Specified Value	
	Tape 1	Tape 2
Play: TW-2111	30 to 60 g. cm	30 to 100 g.cm
Fast forward: TW-2231	—	50 to 100 g.cm
Rewind: TW-2231	—	50 to 100 g.cm

• **Tape Speed**

	Test Tape	Adjusting Point	Specified Value	Instrument Connection
Normal speed	MTT-111	VRM1	3,000 ± 30 Hz	Speaker terminal



TUNER SECTION

fL: Low-range frequency
fH: High-renge frequency

• **AM IF/RF**

Signal generator: 400 Hz, 30%, AM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
IF	450 kHz	1,602 kHz	T351	*1
AM Band Coverage	—	531 kHz	(fL): T306 1.1 ± 0.1 V	*2
AM Tracking	990 kHz	990 kHz	(fL): T302	*1

*1. Input: Antenna, Output: TP302
*2. Input: Antenna, Output: TP301

Notes:

1: Description of the "FM IF Adjustment" is not carried on this Manual. It is because the IF coil in the FM front end section has been best adjusted in the factory so that its further adjustment is not needed at the field. When replacing the FM front end assembly, no adjustment is needed either.
2: The parts in the FM front end section are prepared in a complete unit, so you can't obtain each part individually

• **FM Mute Level**

Signal generator: 1 kHz, 40 kHz dev., FM modulated

Frequency	Frequency Display	Adjusting Parts	Instrument Connection
98.00 MHz (25 dBμV)	98.00 MHz	VR351	Input: Antenna Output: Speaker Terminal

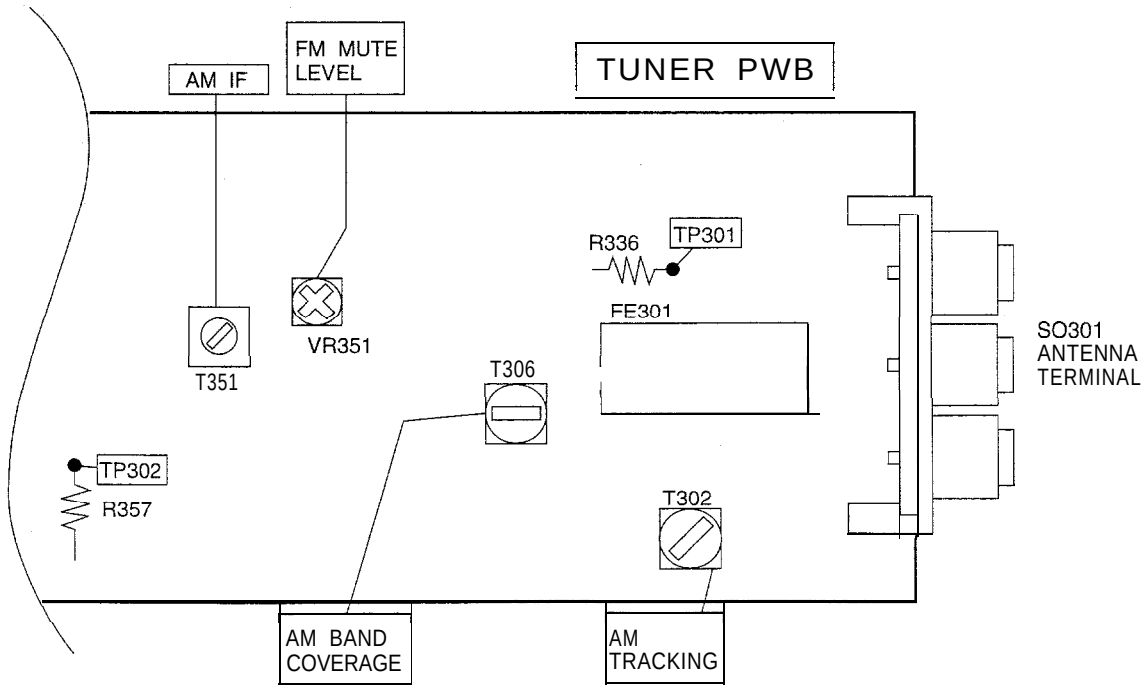


Figure 11 ADJUSTMENT POINTS

TEST MODE

• **Setting the test mode**

Any one of test mode can be set by pressing several keys as follows.
<REC. PAUSE>+<CD>+ <POWER> TEST: CD operation test

• TEST **mode**

Function — CD test **mode**

Setting of TEST mode
Indication of CD TST mode (Fig.12-1)
OPEN/CLOSE operation is manual operation.
The pickup can be moved by using the (▶▶) or (◀◀) key.
} IL is not performed.

<MEMORY> LASER ON — <MEMORY> Tracking on the spot. SERVO OFF PLAY — <MEMORY> Tracking on the spot. SERVO ON PLAY — <STOP> STOP

<PLAY> key input — TOC. IL is performed, and the ordinary PLAY is performed. — Press <STOP> key. — Stop
If the following key is pressed during PLAY, it is possible to specify directly any Track No.
<Disc Number 1> key: Track 4
<Disc Number 2> key: Track 9
<Disc Number 3> key: Track 15

Note:

Only in STOP state it is possible to slide the pickup with the (▶▶) or (◀◀) key.

VOL. --- Last memory
BAL. --- CENTER
R.GEQ. --- FLAT
X-BAS --- OFF

Canceling method - POWER OFF

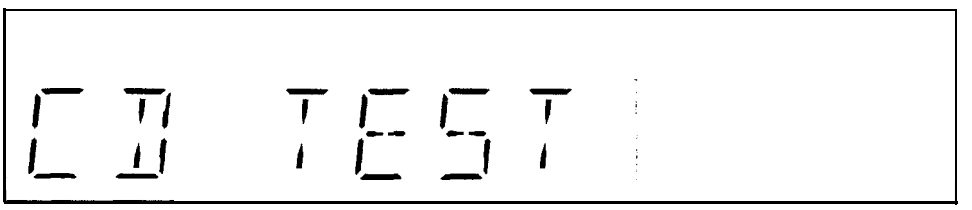


Figure 12-1

CD SECTION

Since this CD system incorporates the following automatic adjustment function, when the pickup is replaced, it is not necessary to readjust it.
Since this CD unit does not need adjustment, the combination of PWB and laser pickup unit is not restricted.

• **Automatic adjustment item**

1. Focus offset (Fig.1 2-2)
2. Tracking offset (Fig.12-3)
3. E/F balance (tracking error balance) (Fig.12-4)
4. RF level AGC function (HF level: constant)
5. RF level automatic follow-up of the tracking gain

This automatic adjustment is performed each time a disc is changed. Therefore, each disc is played back using the optimal settings.

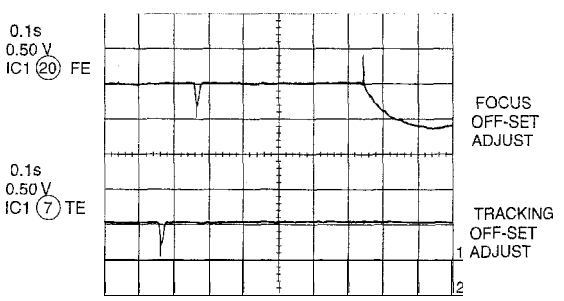


Figure 12-2

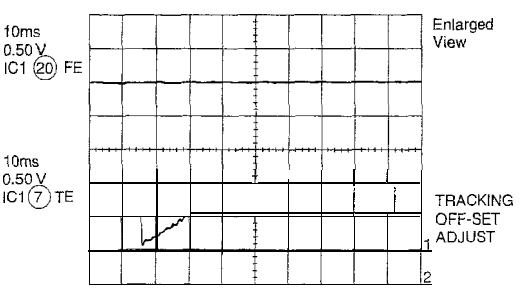


Figure 12-3

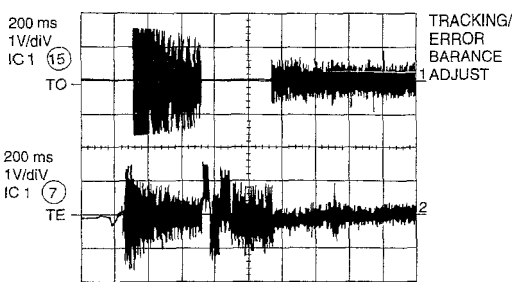


Figure 12-4

EXPLANATION OF DOLBY SURROUND PRO LOGIC AND EVALUATION METHOD

Outline

- Namely, two speakers are connected in parallel to one amplifier.
- In the Pro Logic BYPASS mode the amplifierfor C-ch (center channel) and the amplifier for S-ch (surround channel) are in MUTE state. The SP output is cut.
- In the normal mode of Pro Logic ON mode the amplifiers for C-ch and S-ch are in operative state, so that the SP output appears.
- In the Phantom mode of Pro Logic ON mode the amplifier for C-ch is in MUTE state, so that the SP output is cut. The amplifier for S-ch (surround) is in operative state, so that the SP output appears

- **State of element output and terminal output in specific mode**

State of set / Output point		Dolby Pro Logic Bypass mode	Dolby Pro Logic On mode Normal mode	Dolby Pro Logic On mode Phantom mode
IC501	12 pin L-out	Output enabled state	Output enabled state	Output enabled state
	11 pin R-out	Output enabled state	Output enabled state	Output enabled state
IC501	9 pin C-out	No output	Output enabled state	No output
IC501	10 pin S-out	No output	Output enabled state	Output enabled state
SP OUT (SO901)	L-ch	Output enabled state	Output enabled state	Output enabled state
	R-ch	Output enabled state	Output enabled state	Output enabled state
SP OUT C-ch (SO901)		No output in MUTE (Q604) state	Output enabled state	No output in MUTE (Q604) state
SP OUT S-ch (SO901)		No output in MUTE (Q603) state	Output enabled state	Output enabled state

Test tone output

- Pro Logic ON Normal mode

Press the remote control TEST TONE button.

→Output of only L-ch →Output of only C-ch
↑ ↓
Output of only S-ch ← Output of only R-ch

The test tone (noise) is repeatedly output for output period (2 sec).

In this case the following indication appears repeatedly.

→TEST →L-ch →C-ch
↑ ↓
S-ch ← R-ch

- Pro Logic ON Phantom mode

Press the remote control TEST TONE button.

→Output of only L-ch →Output of only R-ch
↑ ↓
← Output of only S-ch

The test tone (noise) is repeatedly output for output period (2 sec).

In this case the following indication appears repeatedly.

→TEST →L-ch → R-ch
↑ ↓
← S-ch←

Relation between VIDEO IN input and output in Pro Logic ON state

(1) L-ch/R-ch same phase input into VIDEO IN input jack in VIDEO Function mode

Output point		Normal mode
SP out (SO901)	L-ch	Almost no output (only omitting component)
	R-ch	Almost no output (only omitting component)
(SO901) SP out C-ch		Input signal is output.
(50901) SP out S-ch		Almost no output (only omitting component)

Output point		Phantom mode
SP out (SO901)	L-ch	Input signal is output.
	R-ch	Input signal is output.
(SO901) SP out C-ch		SP cut, no output
(SO901) SP out S-ch		Almost no output (only omitting component)

(2) L-ch/R-ch reverse phase input into VIDEO IN input jack in VIDEO Function mode

(Reverse phase: Phase difference between L and R is 180°)

Output point		Normal mode
SP out (SO901)	L-ch	Almost no output (only omitting component)
	R-ch	Almost no output (only omitting component)
(SO901) SP out C-ch		Almost no output (only omitting component)
(SO901) SP out S-ch		Input signal is output.

Output point		Phantom mode
SP out (SO901)	L-ch	Almost no output (only omitting component)
	R-ch	Almost no output (only omitting component)
(SO901) SP out C-ch		SP cut, no output
(SO901) SP out S-ch		Input signal is output.

- Accordingly, if you want to output signal waveform to C-ch SP out, give the same phase input into L-ch/R-ch INPUT in the Pro Logic Normal mode.

If one of channels receives input, C-ch does not output. Only L-ch or R-ch outputs.

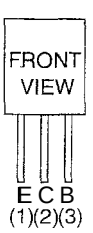
- If you want to output signal waveform to S-ch SP out, you can use either Normal mode or Phantom mode. However, 180" reverse phase input must be given to L-ch/R-ch INPUT.

NOTES ON SCHEMATIC DIAGRAM

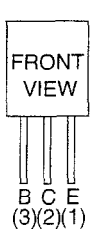
- Resistor:
  To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with "Fusible" is a fuse type.
- Capacitor:
  To indicate the unit of capacitor, a symbol P is used: this symbol P means micro-micro-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression "capacitance/withstand voltage" is used.
  (CH), (TH), (RH), (UJ): Temperature compensation
  (ML): Mylar type
  (P.P.): Polypropylene type
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
  1. In the tuner section,
     ( ) indicates AM
  2. In the main section, a tape is being played back.
  3. in the deck section, a tape is being played back.
     ( ) indicates the record state.
  4. In the power section, a tape is being played back.
  5. In the CD section, the CD is stopped.
- Parts marked with "⚠" (⚠) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF. NO	DESCRIPTION	POSITION
SW1	OPEN/CLOSE	ON—OFF
SW2	MECHA UP	ON—OFF
SW3	DISC NUMBER	ON—OFF
SW4	PICKUP IN	ON—OFF
SW201	SPAN SELECTOR	100/10—50/9
SW701	ON/STAND-BY	ON—OFF
SW702	CLOCK	ON—OFF
SW703	TIMER/SLEEP	ON—OFF
SW704	DISC 1	ON—OFF
SW705	DISC 2	ON—OFF
SW706	DISC 3	ON—OFF
SW707	DISC SKIP	ON—OFF
SW708	OPEN/CLOSE	ON—OFF
SW709	CD	ON—OFF
SW710	TUNER/BAND	ON—OFF
SW711	TAPE	ON—OFF
SW712	VIDEO/AUX	ON—OFF
SW718	CENTER MODE/PHANTOM	ON—OFF
SW719	CENTER MODE/NORMAL	ON—OFF
SW721	DOLBY PRO LOGIC BYPASS	ON—OFF
SW723	REC PAUSE	ON—OFF

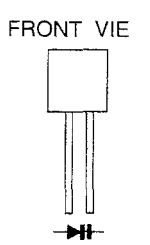
REF. NO	DESCRIPTION	POSITION
SW724	TUNING UP/TIME	ON—OFF
SW725	VOLUME UP	ON—OFF
SW726	X-BASS	ON—OFF
SW728	STOP	ON—OFF
SW729	FWD	ON—OFF
SW730	FF/PRESET UP	ON—OFF
SW731	MEMORY SET	ON—OFF
SW732	TUNING DOWN/TIME	ON—OFF
SW733	VOLUME DOWN	ON—OFF
SW734	EQUALIZER/DEMO	ON—OFF
SW736	REVERSE MODE	ON—OFF
SW737	REV	ON—OFF
SW738	REW/PRESET DOWN	ON—OFF
SW739	CD/TAPE1 EDIT	ON—OFF
SW740	BEAT CANCEL (TAPE1 EDIT)	ON—OFF
SW801	VOLTAGE SELECTOR	110-127-220—230-240
SWM 3	REC FWD	ON—OFF
SWM 4	REC RVS	ON—OFF
SWM 5	F.A.S.	ON—OFF
SWM 6	CAM	ON—OFF



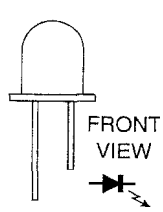
2SC2236 Y
2SC2878 A
KRC102 M
KRC104 M
KRC107 M
KTA1266 GR
KTA1268 GR
KTA1271 Y
KTC3199 GR
KTC3203 Y



2SC1845 F
2SD2012
2SD468 C
KRA107 M
KTA1273 Y



KV1236Z23F



333GTH2

Figure 18 TYPES OF TRANSISTOR AND LED

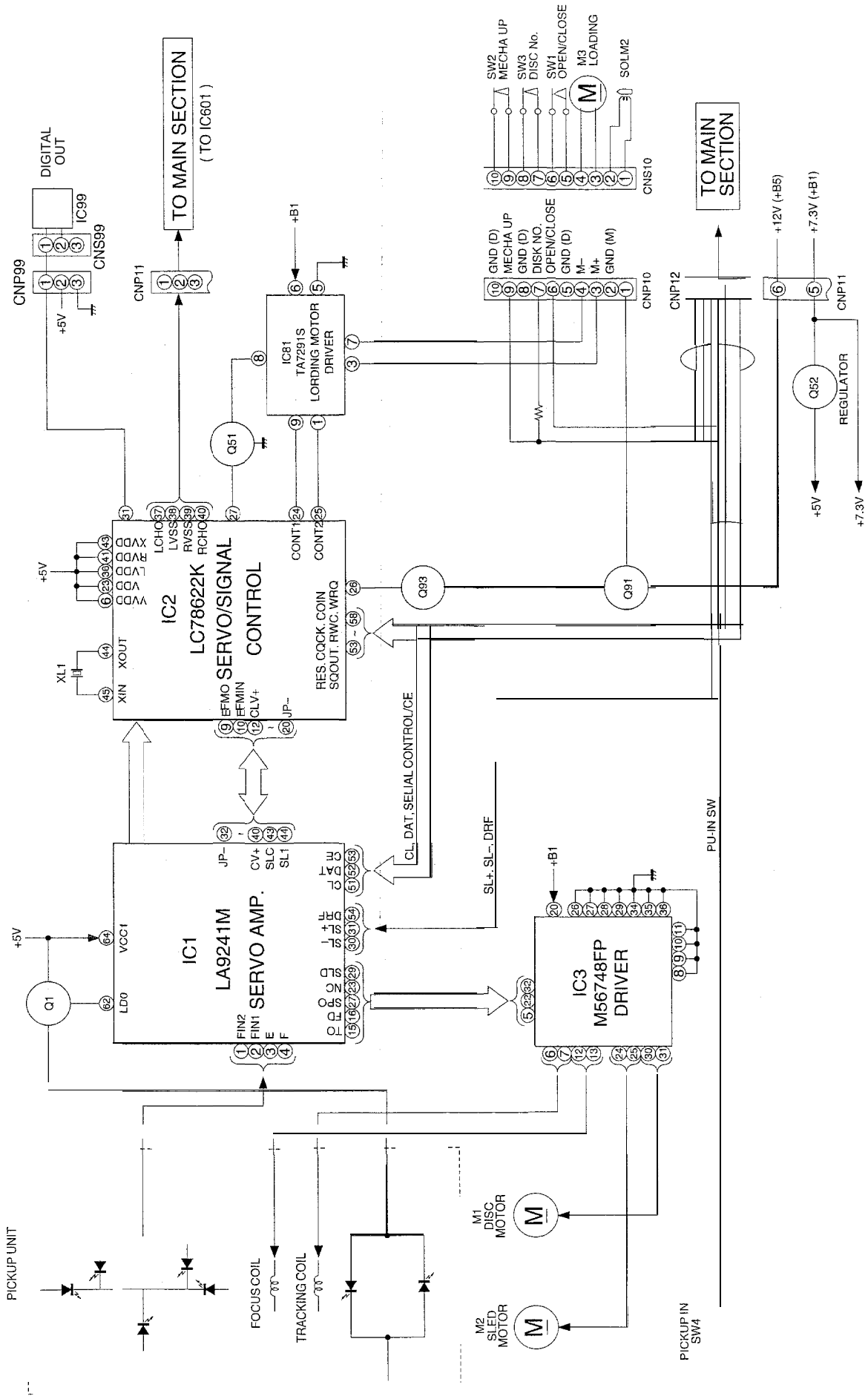


Figure 15 BLOCK DIAGRAM (1/3)

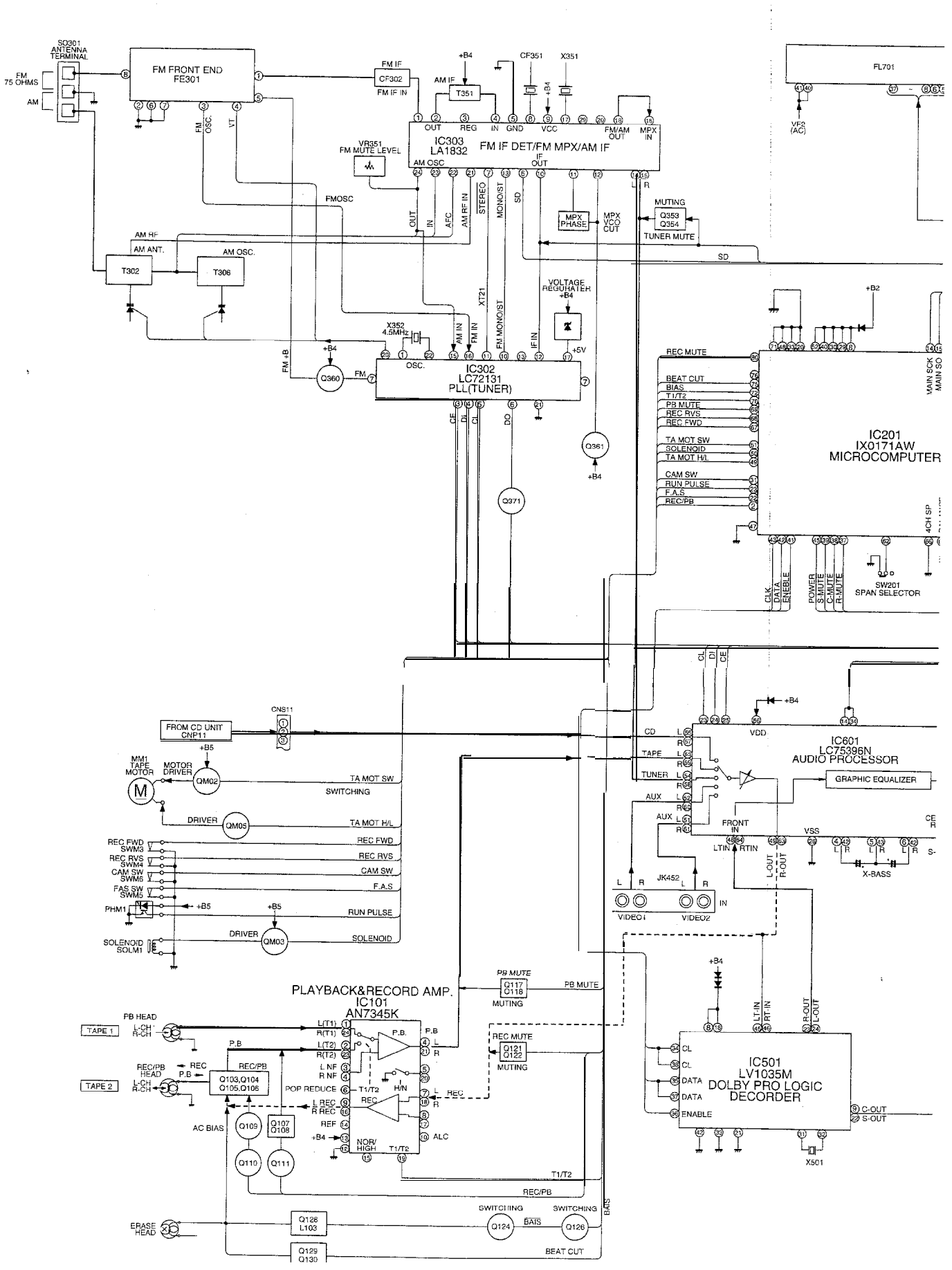


Figure 16 BLOCK DIAGRAM (2/3)

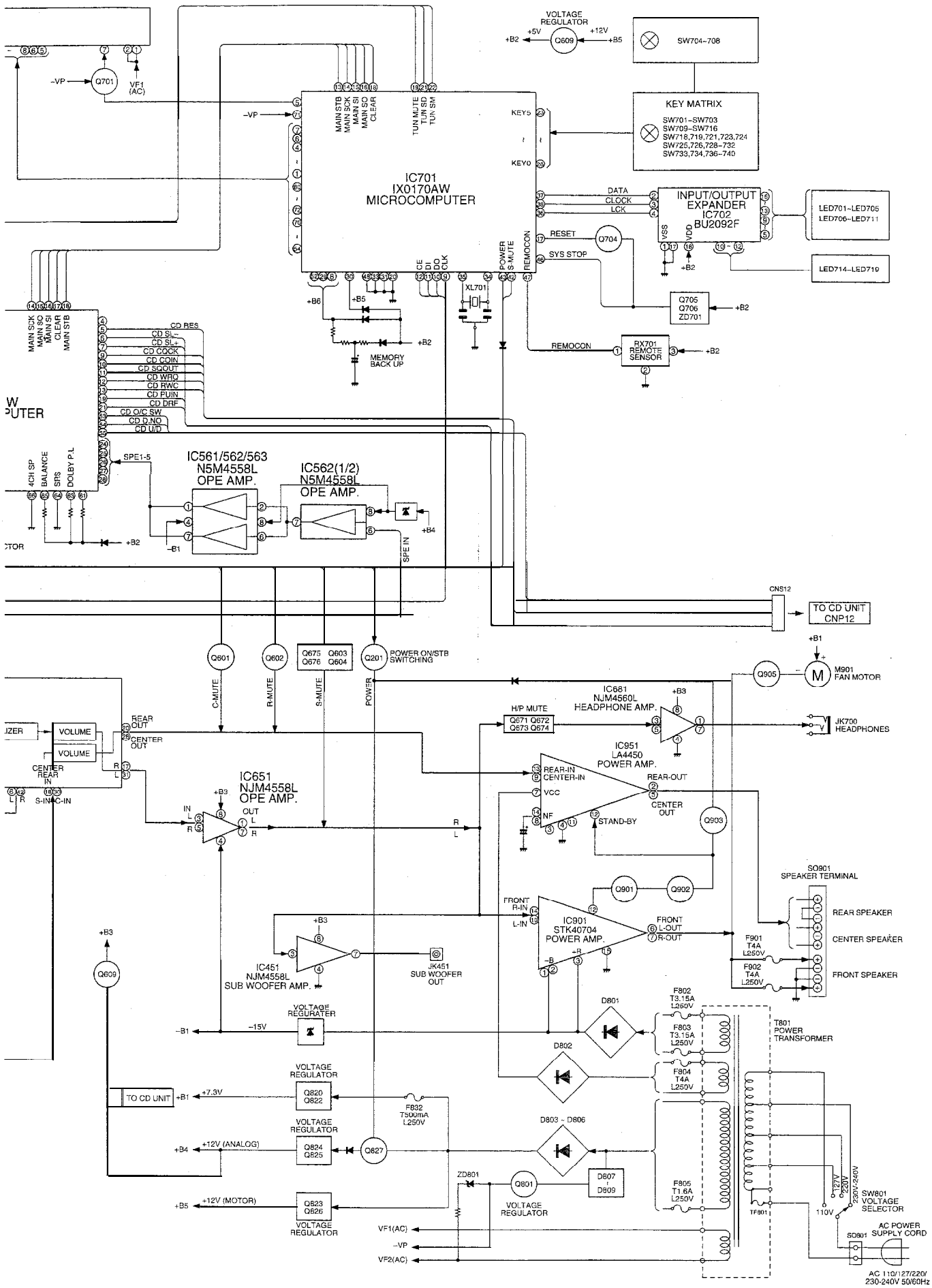
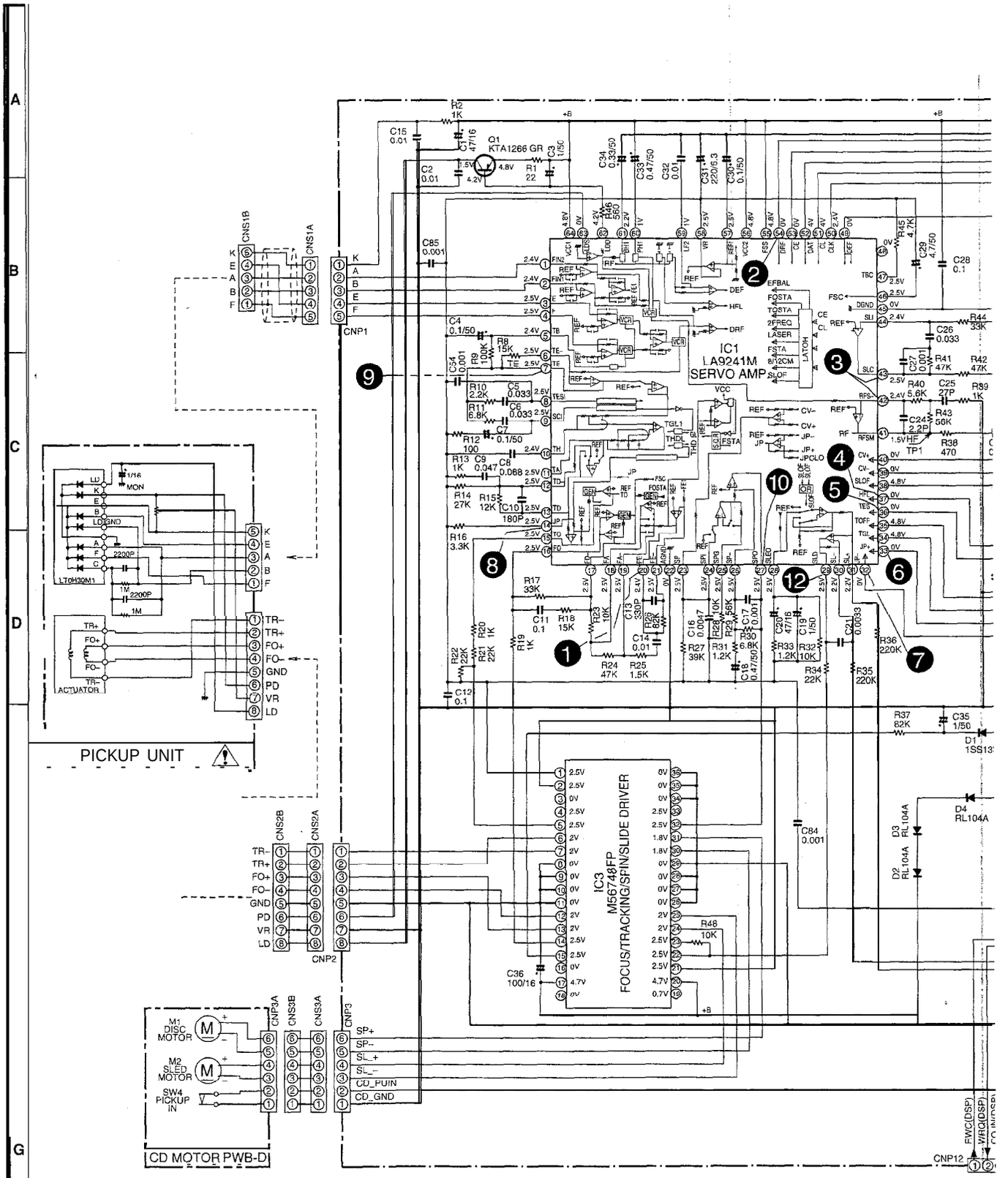


Figure 17 BLOCK DIAGRAM (3/3)



- The numbers ❶ to ⑫ are waveform numbers shown in page 39.
- NOTES ON SCHEMATIC DIAGRAM can be found on page 14.

Figure 18 SCHEMATIC DIAGRAM (1/13)

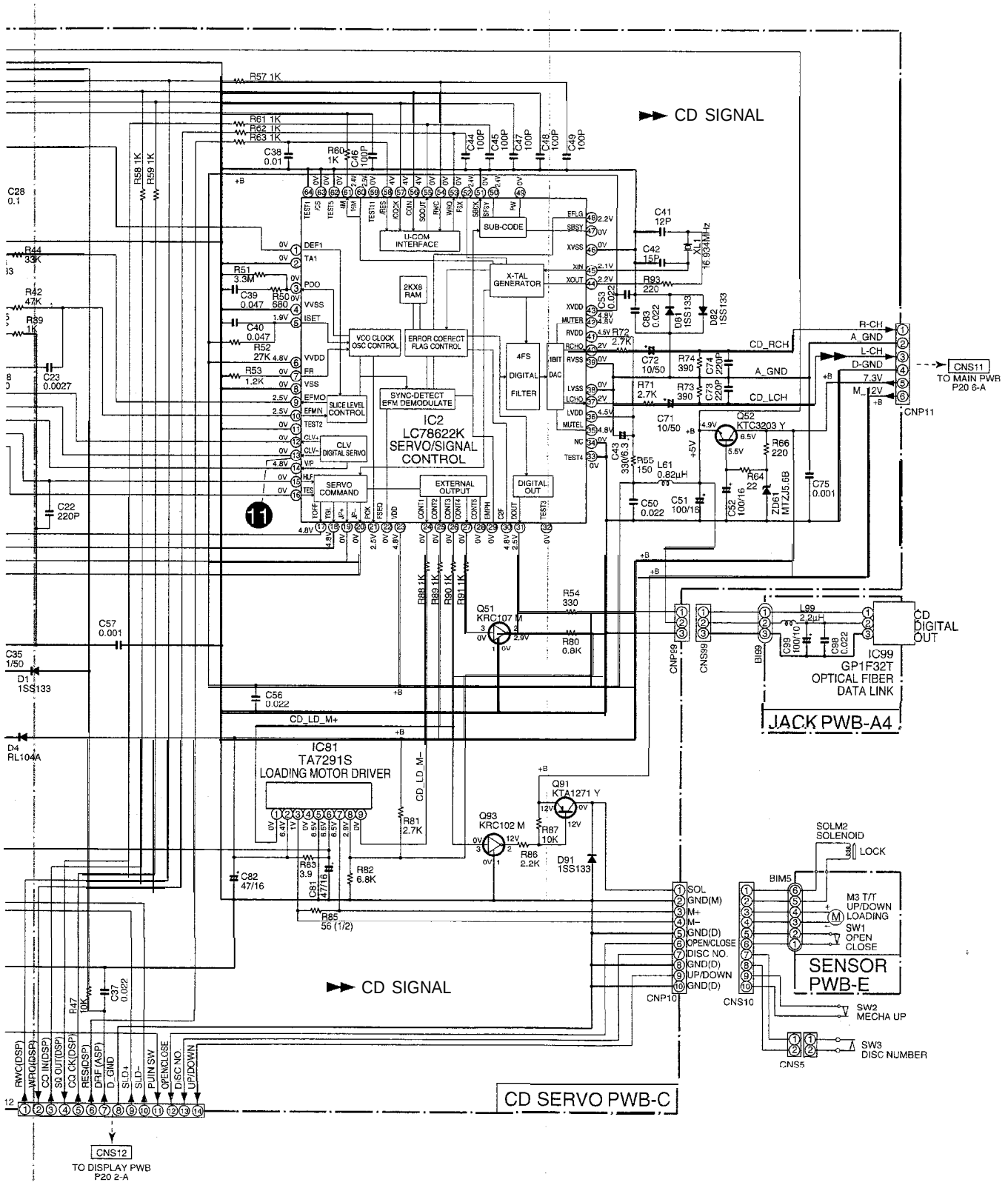
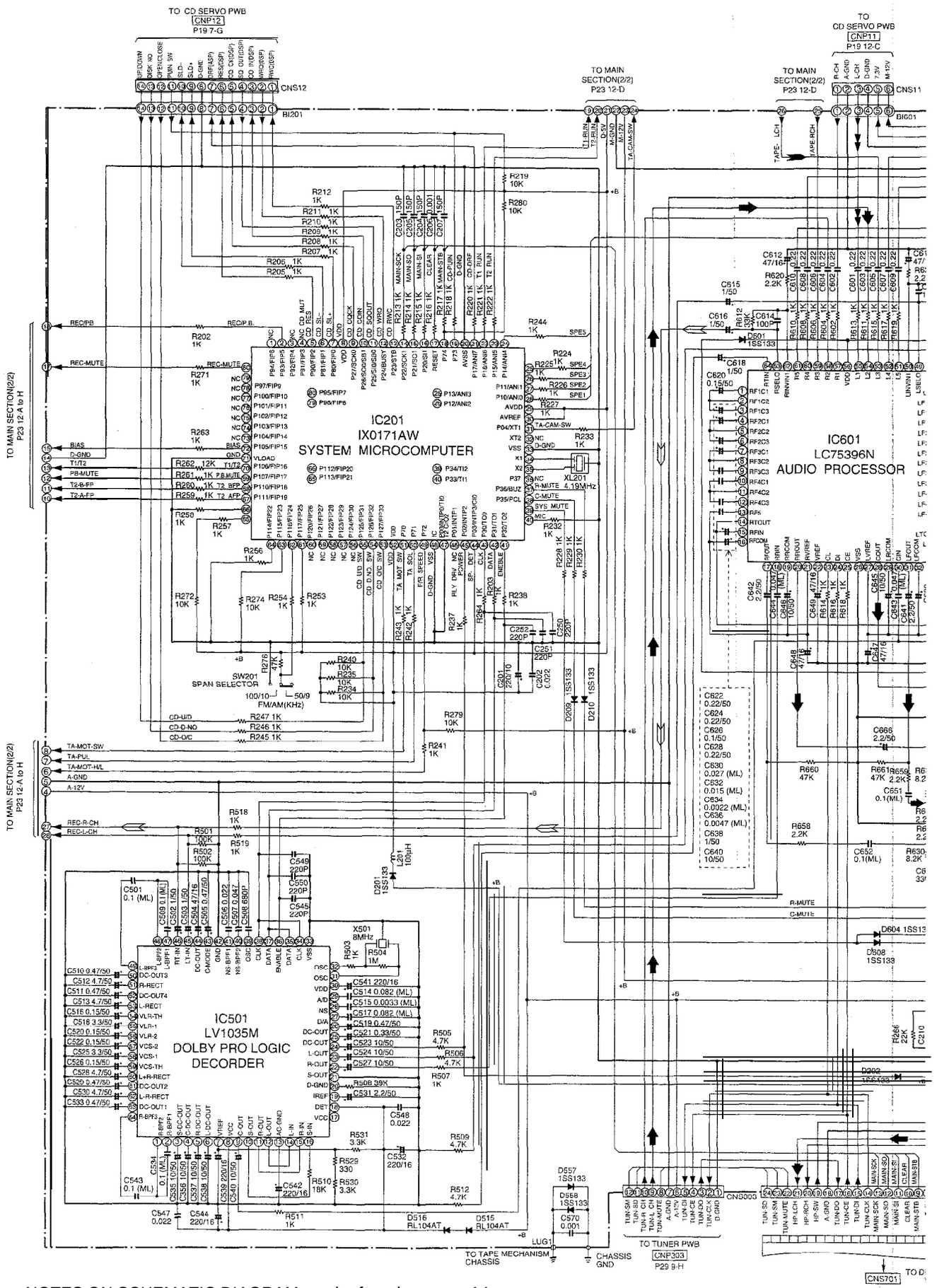


Figure 19 SCHEMATIC DIAGRAM (2/13)



- NOTES ON SCHEMATIC DIAGRAM can be found on page 14.

Figure 20 SCHEMATIC DIAGRAM (3/13)

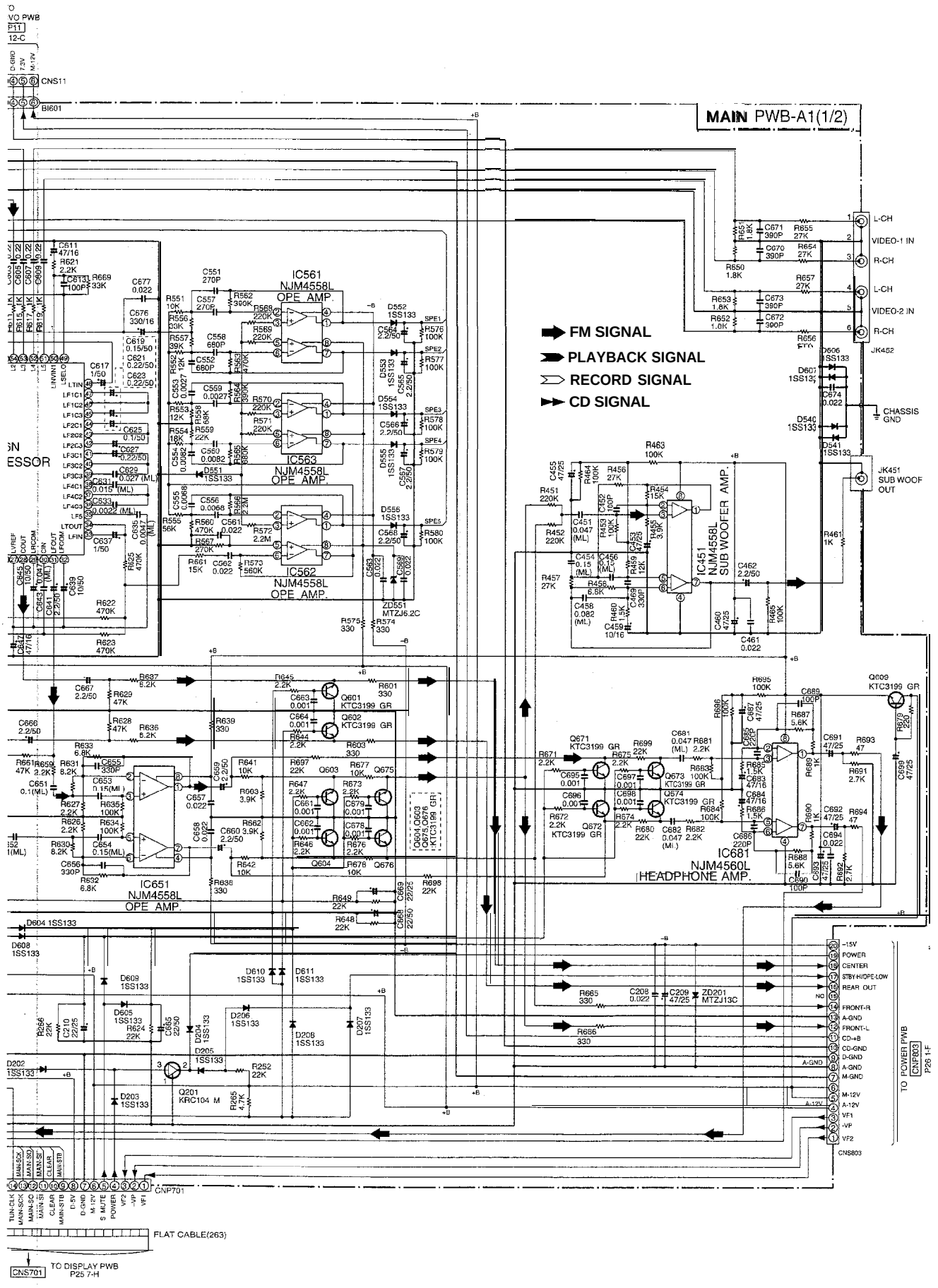
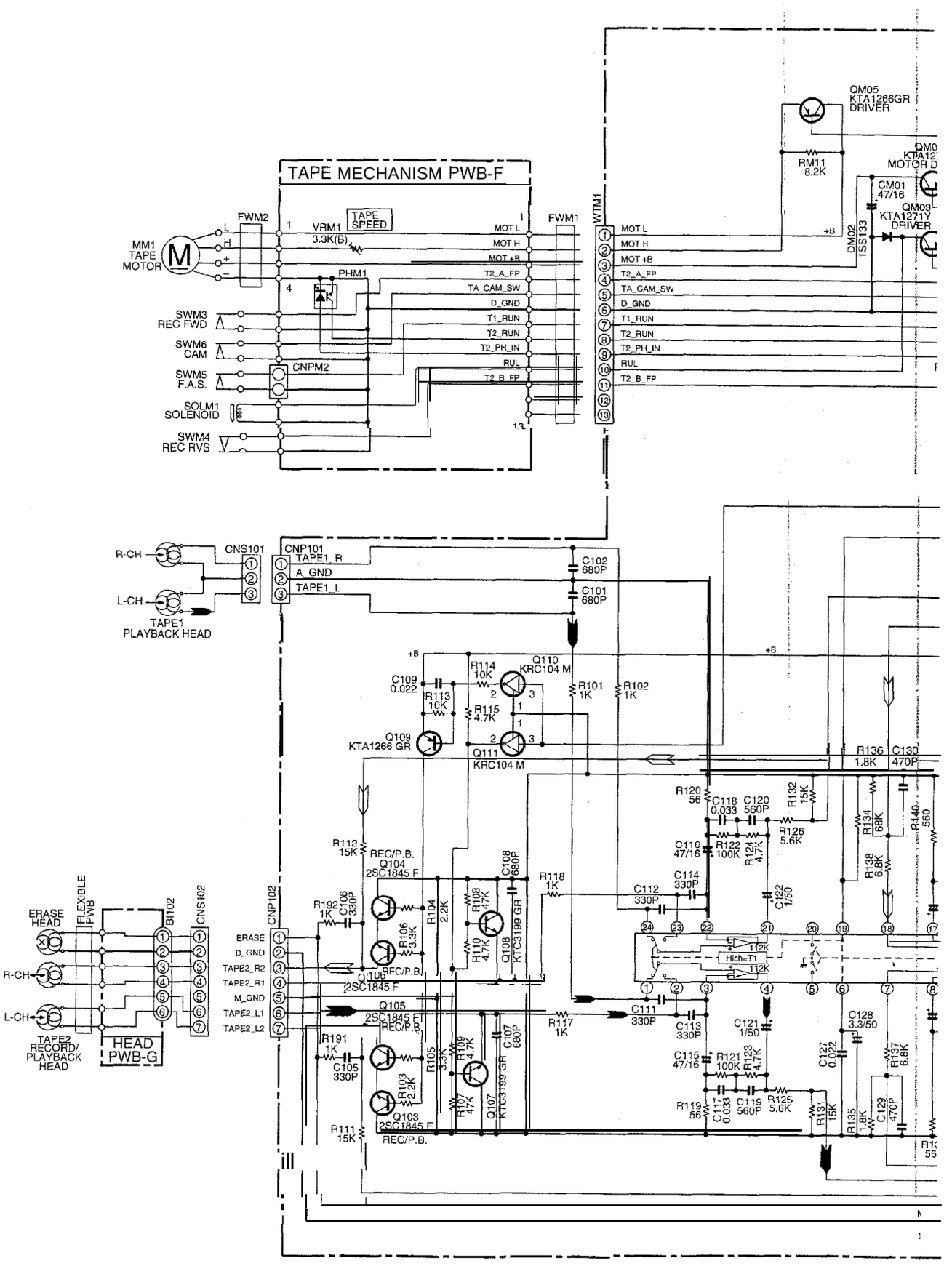


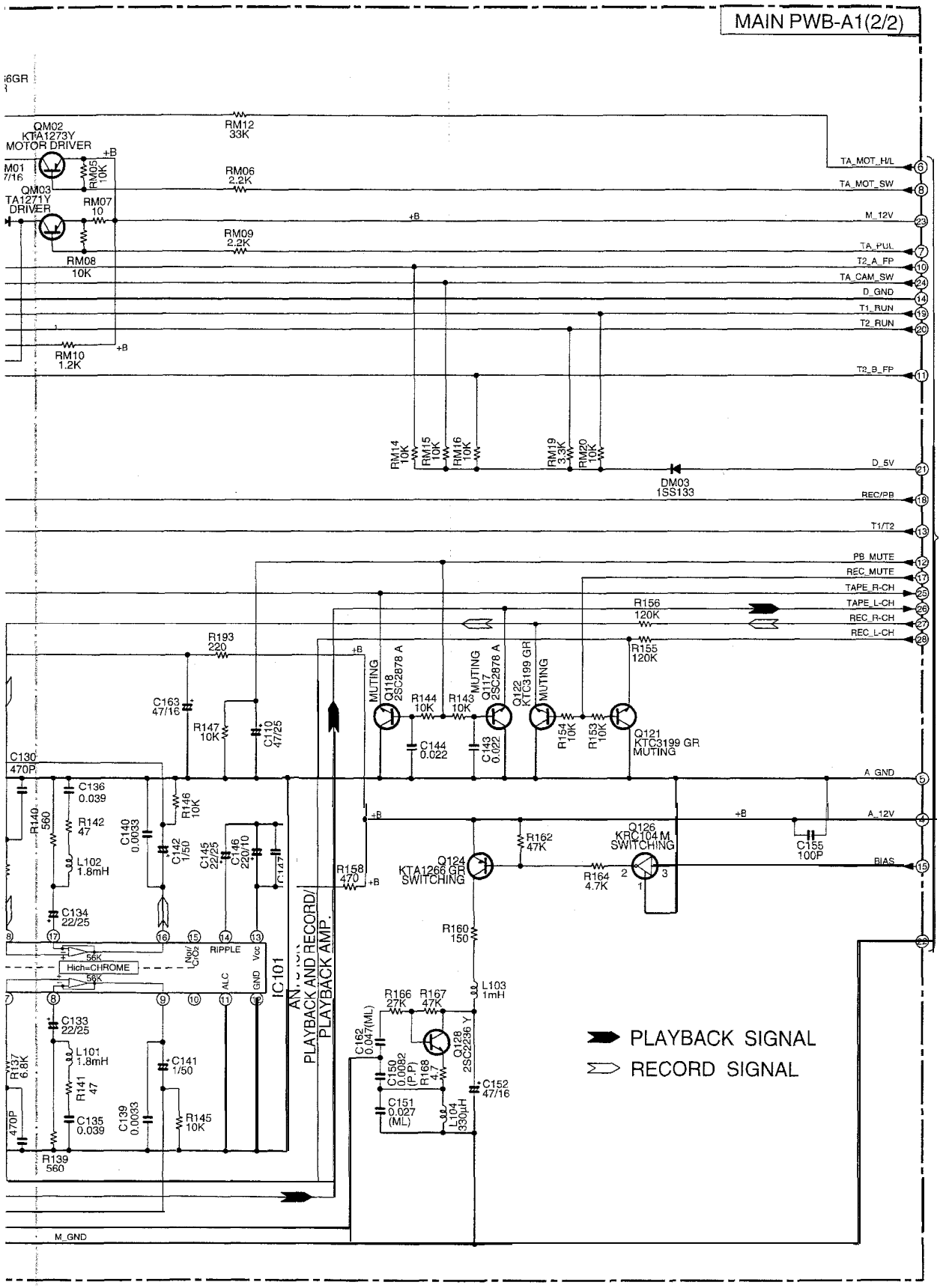
Figure 21 SCHEMATIC DIAGRAM (4/13)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 14.

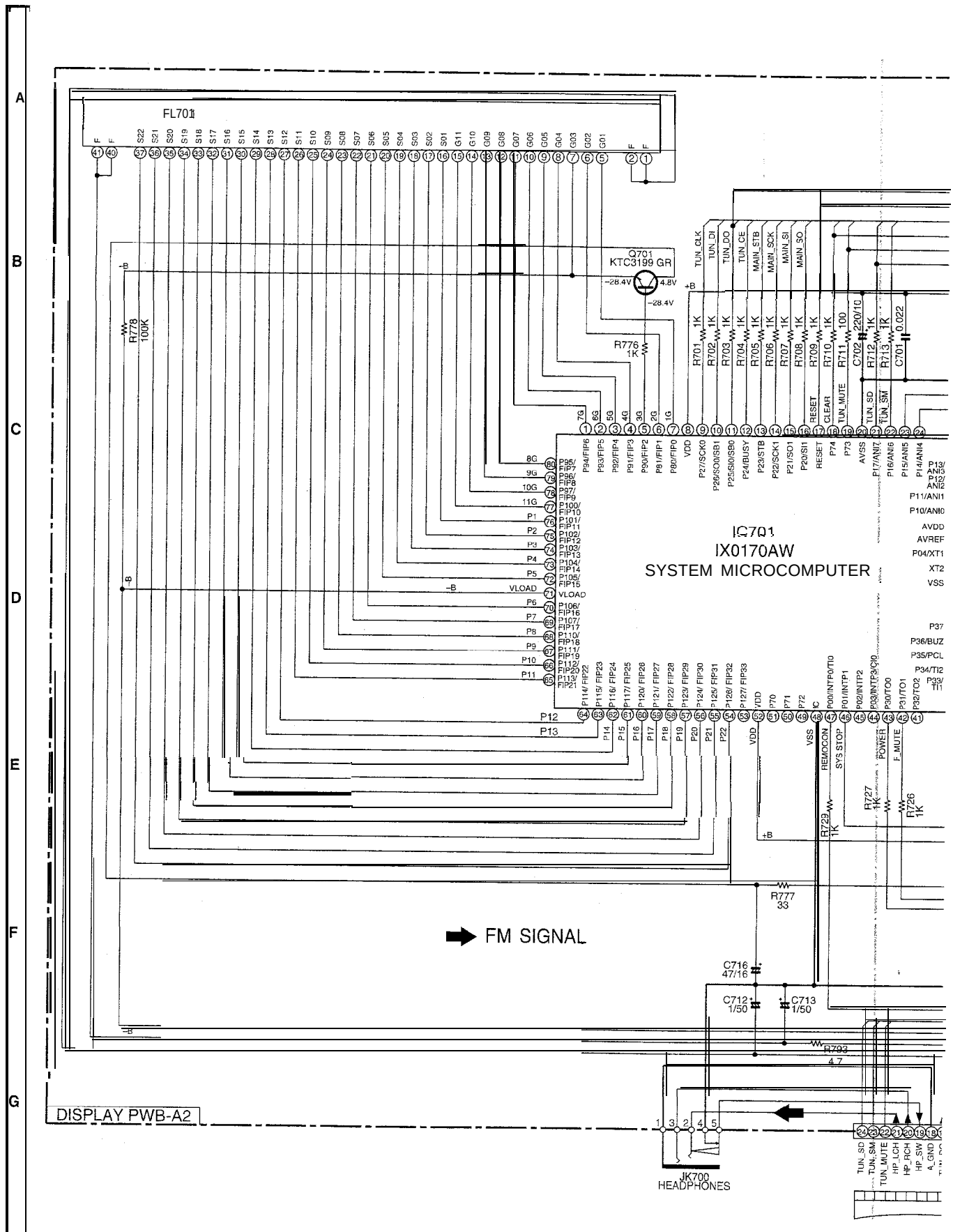
1	2	3	4	5	6

Figure 22 SCHEMATIC DIAGRAM (5/13)



7	8	9	10	11	12

Figure 23 SCHEMATIC DIAGRAM (6/13)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 14.

Figure 24 SCHEMATIC DIAGRAM (7/13)

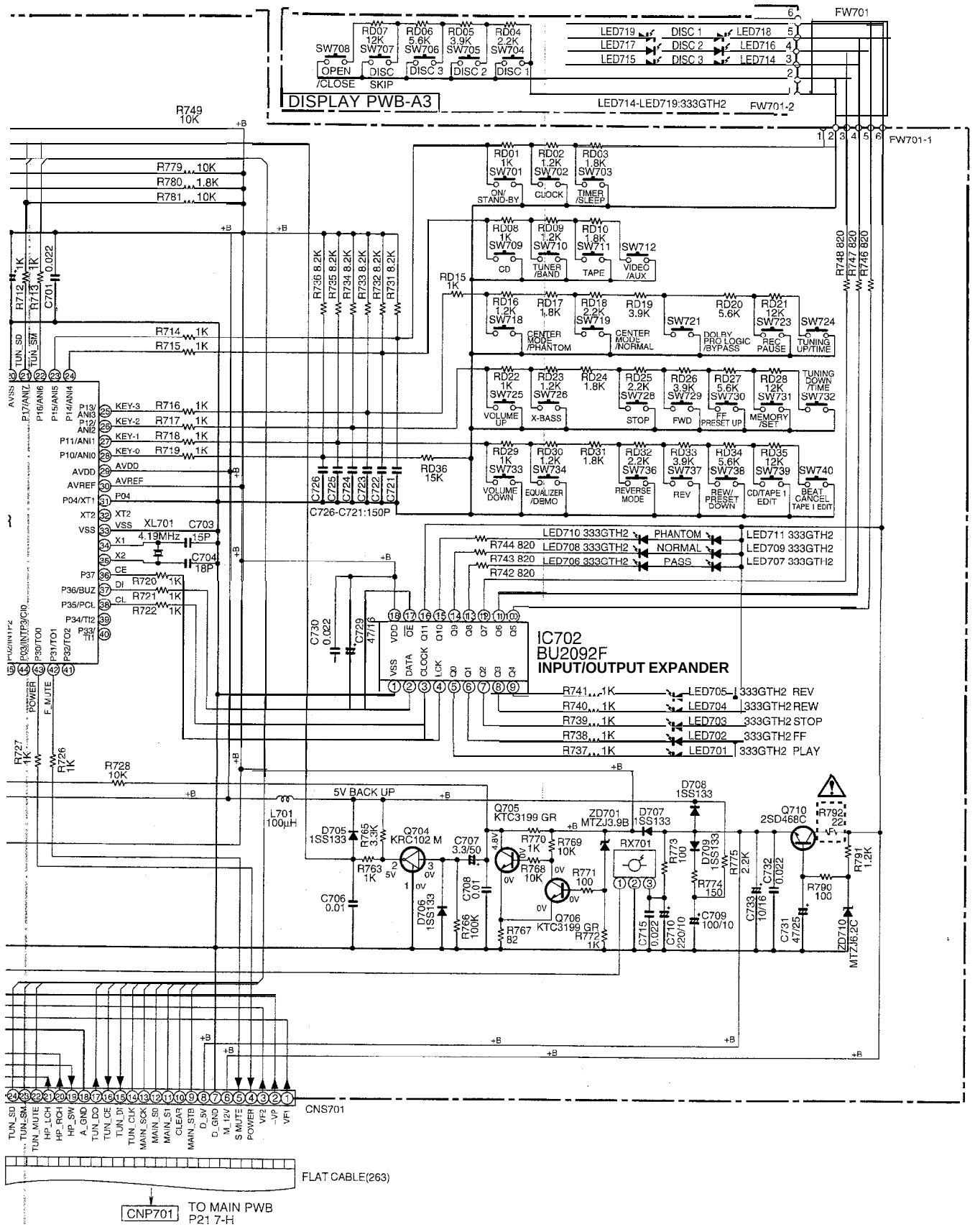
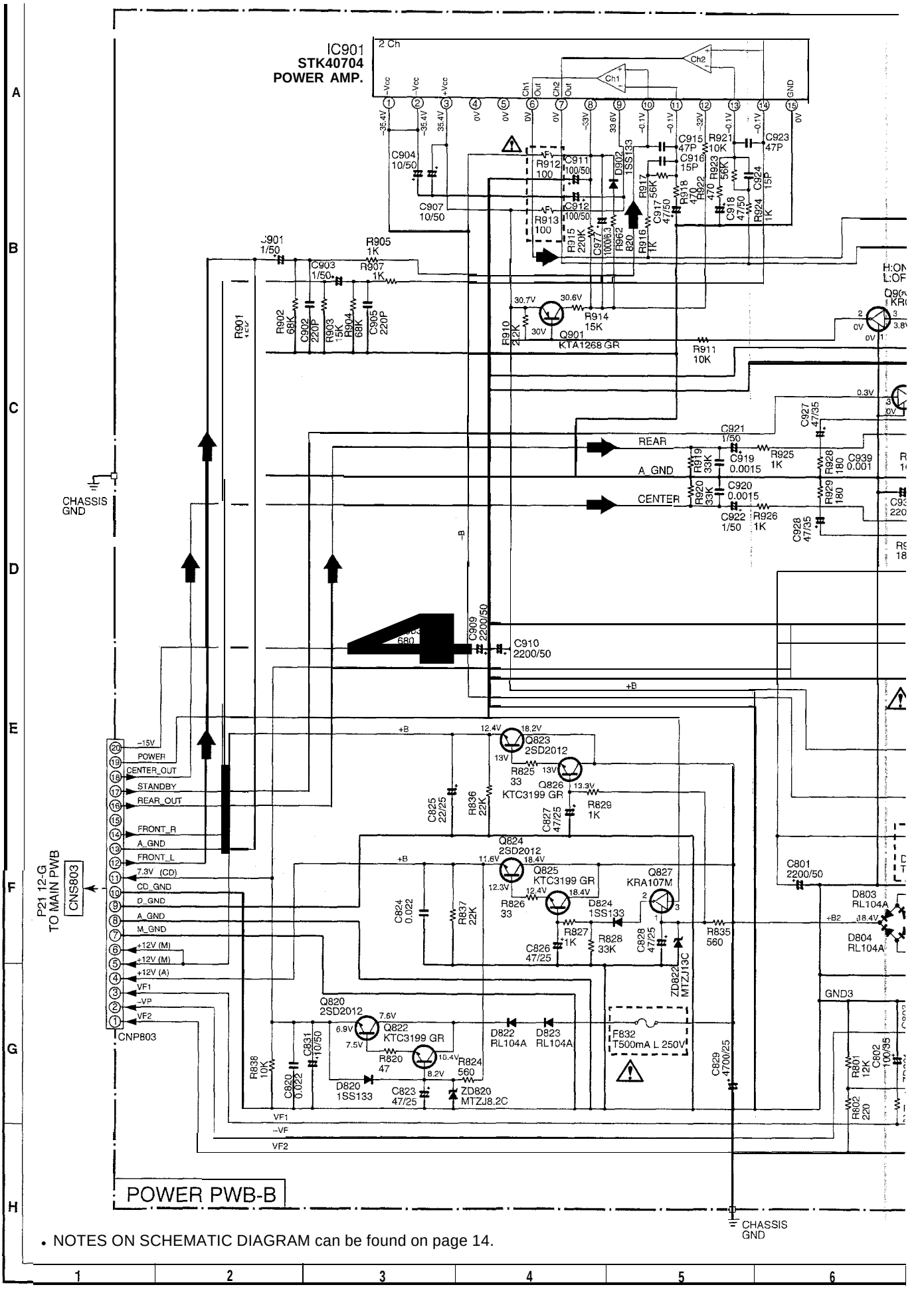


Figure 25 SCHEMATIC DIAGRAM **(8/13)**



• NOTES ON SCHEMATIC DIAGRAM can be found on page 14.

Figure 26 SCHEMATIC DIAGRAM (9/13)

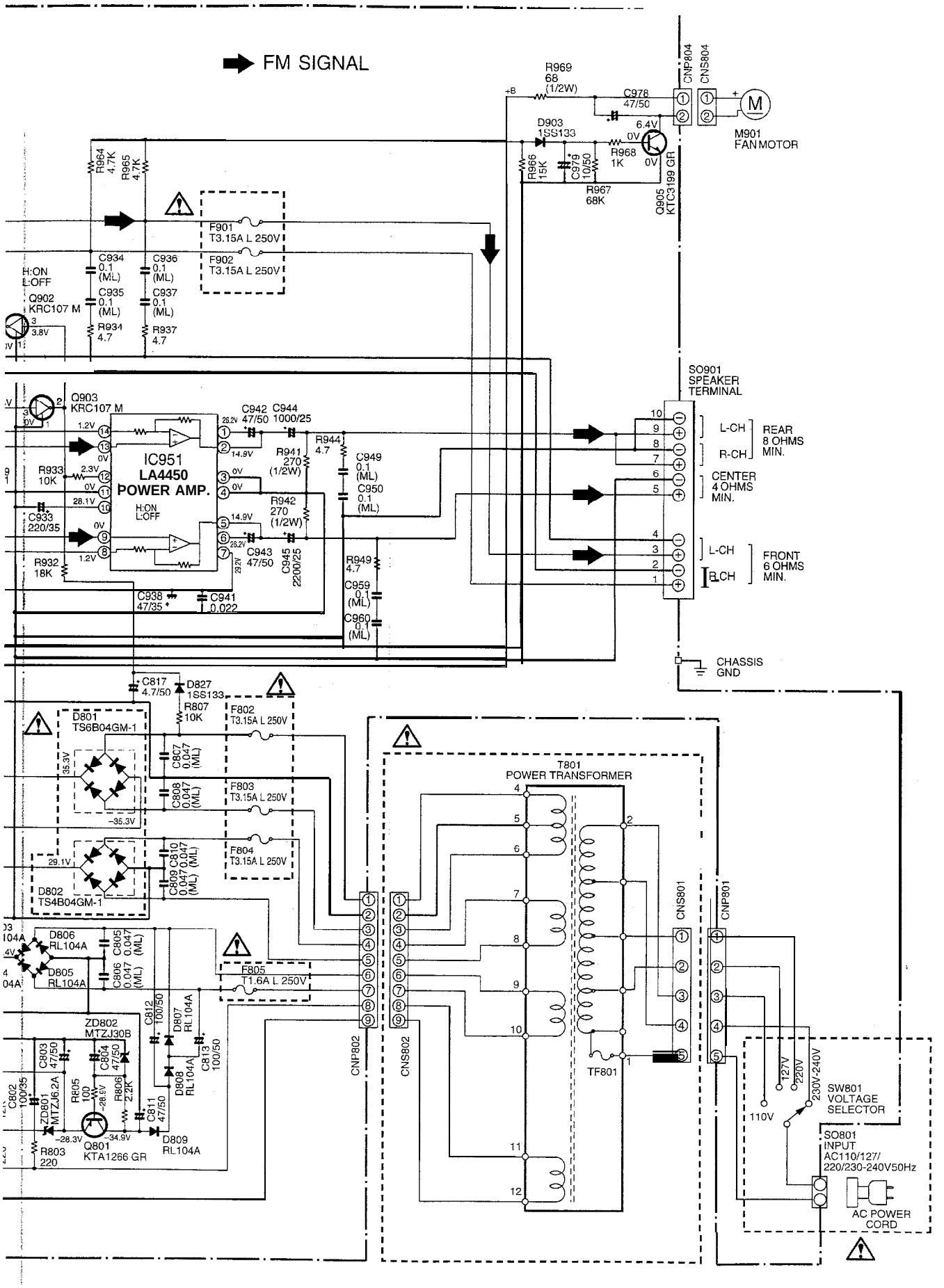
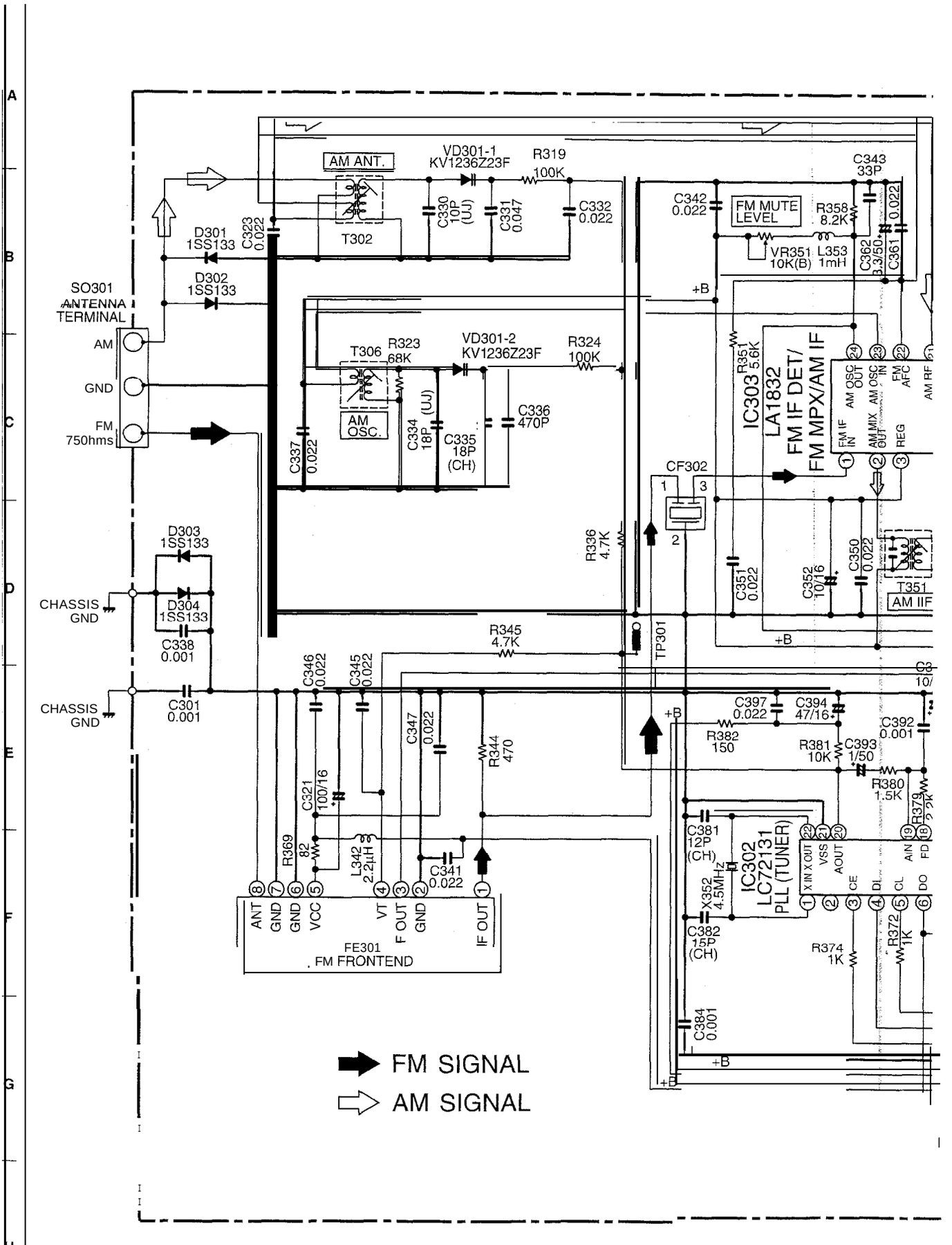


Figure 27 SCHEMATIC DIAGRAM (10113)



* NOTES ON SCHEMATIC DIAGRAM can be found on page 14.

Figure 28 SCHEMATIC DIAGRAM (1 1/13)

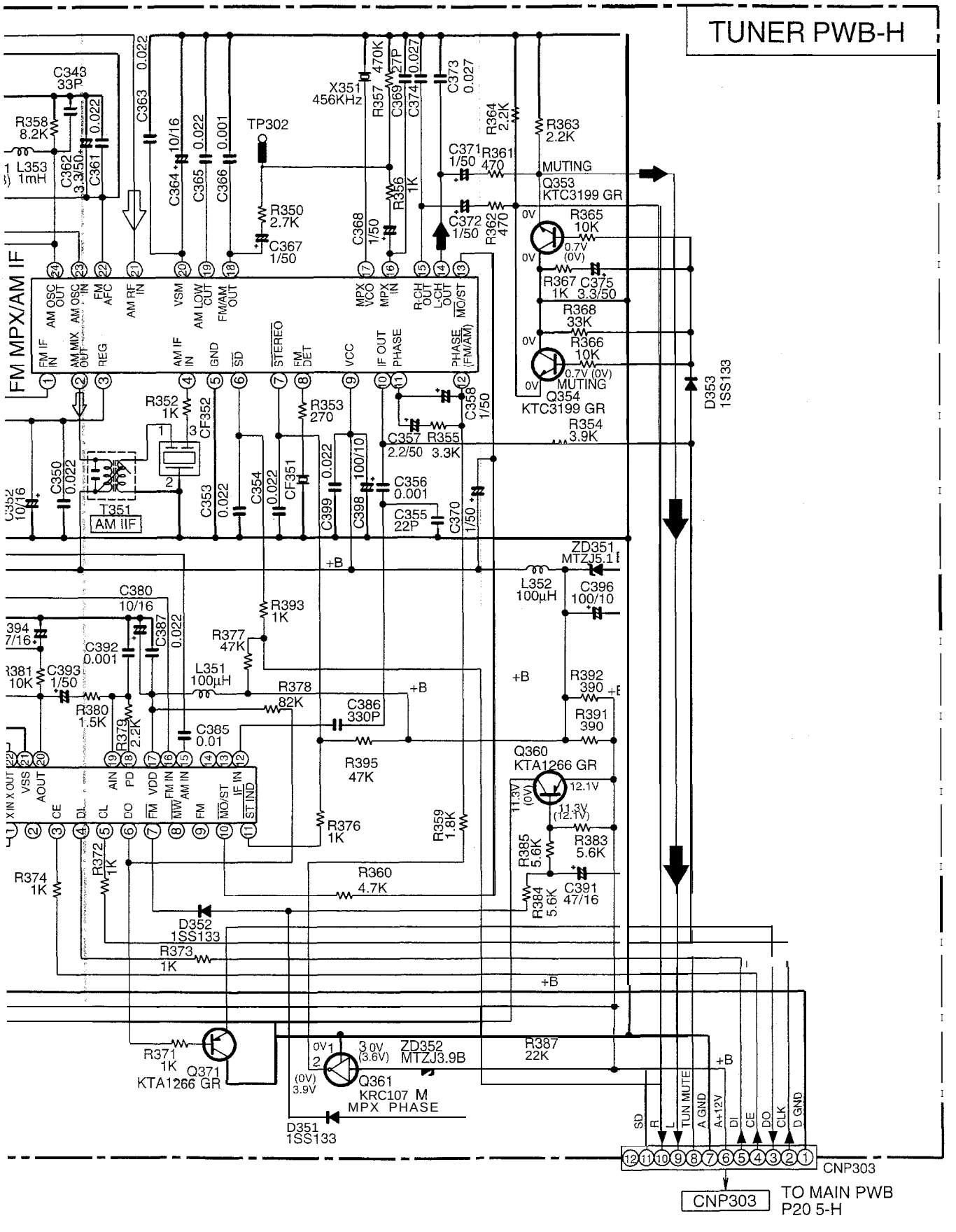
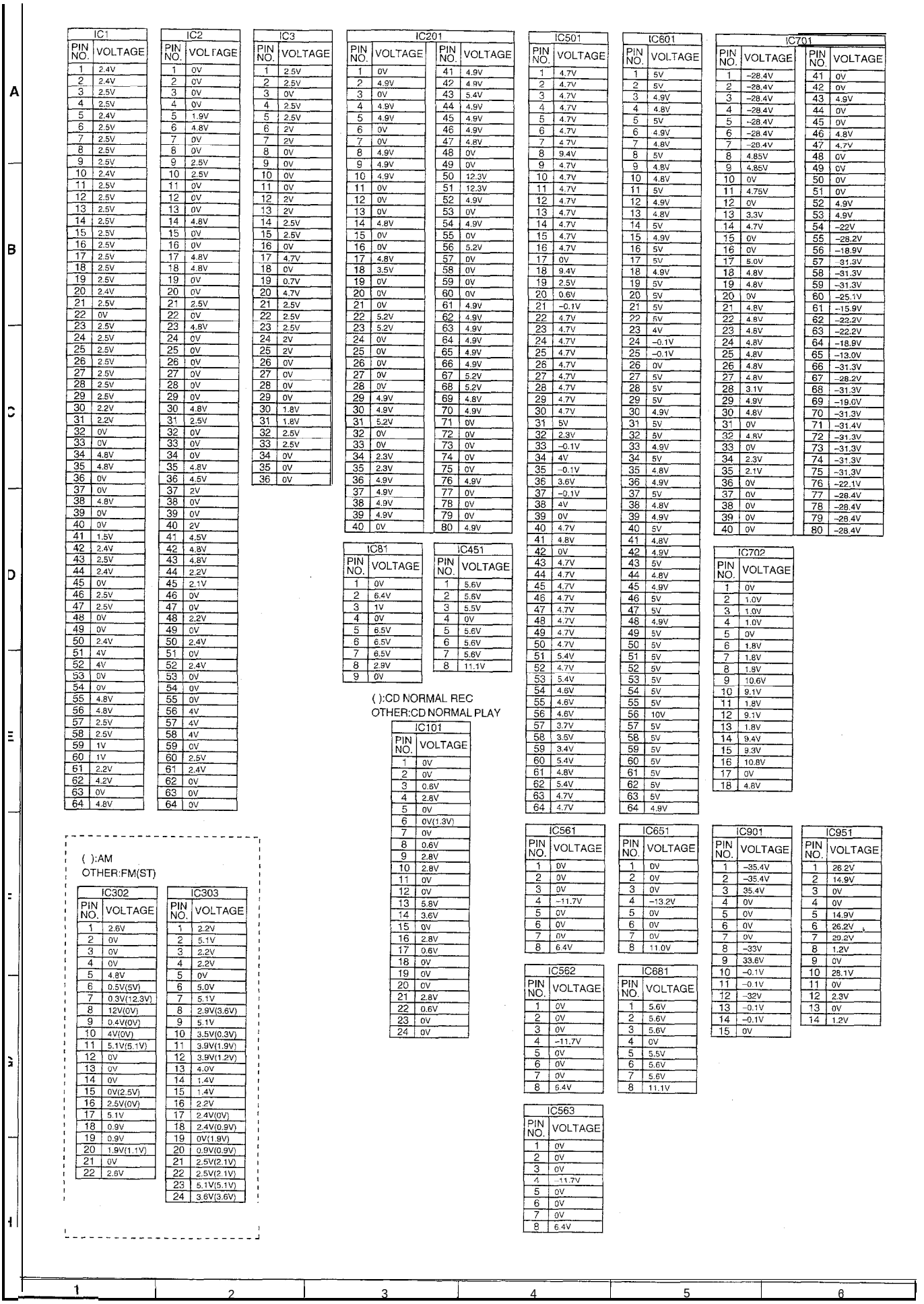


Figure 29 SCHEMATIC DIAGRAM (12/13)



IC1	
PIN NO.	VOLTAGE
1	2.4V
2	2.4V
3	2.5V
4	2.5V
5	2.4V
6	2.5V
7	2.5V
8	2.5V
9	2.5V
10	2.4V
11	2.5V
12	2.5V
13	2.5V
14	2.5V
15	2.5V
16	2.5V
17	2.5V
18	2.5V
19	2.5V
20	2.4V
21	2.5V
22	0V
23	2.5V
24	2.5V
25	2.5V
26	2.5V
27	2.5V
28	2.5V
29	2.5V
30	2.2V
31	2.2V
32	0V
33	0V
34	4.8V
35	4.8V
36	0V
37	0V
38	4.8V
39	0V
40	0V
41	1.5V
42	2.4V
43	2.5V
44	2.4V
45	0V
46	2.5V
47	2.5V
48	0V
49	0V
50	2.4V
51	4V
52	4V
53	0V
54	0V
55	4.8V
56	4.8V
57	2.5V
58	2.5V
59	1V
60	1V
61	2.2V
62	4.2V
63	0V
64	4.8V

IC2	
PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	0V
5	1.9V
6	4.8V
7	0V
8	0V
9	2.5V
10	2.5V
11	0V
12	0V
13	0V
14	4.8V
15	0V
16	0V
17	4.8V
18	4.8V
19	0V
20	0V
21	2.5V
22	0V
23	4.8V
24	0V
25	0V
26	0V
27	0V
28	0V
29	0V
30	4.8V
31	2.5V
32	0V
33	0V
34	0V
35	4.8V
36	4.5V
37	2V
38	0V
39	0V
40	2V
41	4.5V
42	4.8V
43	4.8V
44	2.2V
45	2.1V
46	0V
47	0V
48	2.2V
49	0V
50	2.4V
51	0V
52	2.4V
53	0V
54	0V
55	0V
56	4V
57	4V
58	4V
59	0V
60	2.5V
61	2.4V
62	0V
63	0V
64	0V

IC3	
PIN NO.	VOLTAGE
1	2.5V
2	2.5V
3	0V
4	2.5V
5	2.5V
6	2V
7	2V
8	0V
9	0V
10	0V
11	0V
12	2V
13	2V
14	2.5V
15	2.5V
16	0V
17	4.7V
18	0V
19	0.7V
20	4.7V
21	2.5V
22	2.5V
23	2.5V
24	2V
25	2V
26	0V
27	0V
28	0V
29	0V
30	1.8V
31	1.8V
32	2.5V
33	2.5V
34	0V
35	0V
36	0V

IC201			
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	0V	41	4.9V
2	4.9V	42	4.9V
3	0V	43	5.4V
4	4.9V	44	4.9V
5	4.9V	45	4.9V
6	0V	46	4.9V
7	0V	47	4.8V
8	4.9V	48	0V
9	4.9V	49	0V
10	4.9V	50	12.3V
11	0V	51	12.3V
12	0V	52	4.9V
13	0V	53	0V
14	4.8V	54	4.9V
15	0V	55	0V
16	0V	56	5.2V
17	4.8V	57	0V
18	3.5V	58	0V
19	0V	59	0V
20	0V	60	0V
21	0V	61	4.9V
22	5.2V	62	4.9V
23	5.2V	63	4.9V
24	0V	64	4.9V
25	0V	65	4.9V
26	0V	66	4.9V
27	0V	67	5.2V
28	0V	68	5.2V
29	4.9V	69	4.8V
30	4.9V	70	4.9V
31	5.2V	71	0V
32	0V	72	0V
33	0V	73	0V
34	2.3V	74	0V
35	2.3V	75	0V
36	4.9V	76	4.9V
37	4.9V	77	0V
38	4.9V	78	0V
39	4.9V	79	0V
40	0V	80	4.9V

IC81	
PIN NO.	VOLTAGE
1	0V
2	6.4V
3	1V
4	0V
5	6.5V
6	6.5V
7	6.5V
8	2.9V
9	0V

IC451	
PIN NO.	VOLTAGE
1	5.6V
2	5.6V
3	5.5V
4	0V
5	5.6V
6	5.6V
7	5.6V
8	11.1V

( ):CD NORMAL REC
OTHER:CD NORMAL PLAY

IC101	
PIN NO.	VOLTAGE
1	0V
2	0V
3	0.6V
4	2.8V
5	0V
6	0V(1.3V)
7	0V
8	0.6V
9	2.8V
10	2.8V
11	0V
12	0V
13	5.8V
14	3.6V
15	0V
16	2.8V
17	0.6V
18	0V
19	0V
20	0V
21	2.8V
22	0.6V
23	0V
24	0V

IC501	
PIN NO.	VOLTAGE
1	4.7V
2	4.7V
3	4.7V
4	4.7V
5	4.7V
6	4.7V
7	4.7V
8	9.4V
9	4.7V
10	4.7V
11	4.7V
12	4.7V
13	4.7V
14	4.7V
15	4.7V
16	4.7V
17	0V
18	9.4V
19	2.5V
20	0.6V
21	−0.1V
22	4.7V
23	4.7V
24	4.7V
25	4.7V
26	4.7V
27	4.7V
28	4.7V
29	4.7V
30	4.7V
31	5V
32	2.3V
33	−0.1V
34	4V
35	−0.1V
36	3.6V
37	−0.1V
38	4V
39	0V
40	4.7V
41	4.8V
42	0V
43	4.7V
44	4.7V
45	4.7V
46	4.7V
47	4.7V
48	4.7V
49	4.7V
50	4.7V
51	5.4V
52	4.7V
53	5.4V
54	4.6V
55	4.6V
56	4.6V
57	3.7V
58	3.5V
59	3.4V
60	5.4V
61	4.8V
62	5.4V
63	4.7V
64	4.7V

IC601	
PIN NO.	VOLTAGE
1	5V
2	5V
3	4.9V
4	4.8V
5	5V
6	4.9V
7	4.8V
8	5V
9	4.8V
10	4.8V
11	5V
12	4.9V
13	4.8V
14	5V
15	4.9V
16	5V
17	5V
18	4.9V
19	5V
20	5V
21	5V
22	5V
23	4V
24	−0.1V
25	−0.1V
26	0V
27	5V
28	5V
29	5V
30	4.9V
31	5V
32	5V
33	4.9V
34	5V
35	4.8V
36	4.9V
37	5V
38	4.8V
39	4.9V
40	5V
41	4.8V
42	4.9V
43	5V
44	4.8V
45	4.9V
46	5V
47	5V
48	4.9V
49	5V
50	5V
51	5V
52	5V
53	5V
54	5V
55	5V
56	10V
57	5V
58	5V
59	5V
60	5V
61	5V
62	5V
63	5V
64	4.9V

IC701			
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	−28.4V	41	0V
2	−28.4V	42	0V
3	−28.4V	43	4.9V
4	−28.4V	44	0V
5	−28.4V	45	0V
6	−28.4V	46	4.8V
7	−28.4V	47	4.7V
8	4.85V	48	0V
9	4.85V	49	0V
10	0V	50	0V
11	4.75V	51	0V
12	0V	52	4.9V
13	3.3V	53	4.9V
14	4.7V	54	−22V
15	0V	55	−28.2V
16	0V	56	−18.9V
17	5.0V	57	−31.3V
18	4.8V	58	−31.3V
19	4.8V	59	−31.3V
20	0V	60	−25.1V
21	4.8V	61	−15.9V
22	4.8V	62	−22.2V
23	4.8V	63	−22.2V
24	4.8V	64	−18.9V
25	4.8V	65	−13.0V
26	4.8V	66	−31.3V
27	4.8V	67	−28.2V
28	3.1V	68	−31.3V
29	4.9V	69	−19.0V
30	4.8V	70	−31.3V
31	0V	71	−31.4V
32	4.8V	72	−31.3V
33	0V	73	−31.3V
34	2.3V	74	−31.3V
35	2.1V	75	−31.3V
36	0V	76	−22.1V
37	0V	77	−28.4V
38	0V	78	−28.4V
39	0V	79	−28.4V
40	0V	80	−28.4V

IC702	
PIN NO.	VOLTAGE
1	0V
2	1.0V
3	1.0V
4	1.0V
5	0V
6	1.8V
7	1.8V
8	1.8V
9	10.6V
10	9.1V
11	1.8V
12	9.1V
13	1.8V
14	9.4V
15	9.3V
16	10.8V
17	0V
18	4.8V

( ):AM
OTHER:FM(ST)

IC302	
PIN NO.	VOLTAGE
1	2.6V
2	0V
3	0V
4	0V
5	4.8V
6	0.5V(5V)
7	0.3V(12.3V)
8	12V(0V)
9	0.4V(0V)
10	4V(0V)
11	5.1V(5.1V)
12	0V
13	0V
14	0V
15	0V(2.5V)
16	2.5V(0V)
17	5.1V
18	0.9V
19	0.9V
20	1.9V(1.1V)
21	0V
22	2.6V

IC303	
PIN NO.	VOLTAGE
1	2.2V
2	5.1V
3	2.2V
4	2.2V
5	0V
6	5.0V
7	5.1V
8	2.9V(3.6V)
9	5.1V
10	3.5V(0.3V)
11	3.9V(1.9V)
12	3.9V(1.2V)
13	4.0V
14	1.4V
15	1.4V
16	2.2V
17	2.4V(0V)
18	2.4V(0.9V)
19	0V(1.9V)
20	0.9V(0.9V)
21	2.5V(2.1V)
22	2.5V(2.1V)
23	5.1V(5.1V)
24	3.6V(3.6V)

IC561	
PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	−11.7V
5	0V
6	0V
7	0V
8	6.4V

IC562	
PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	−11.7V
5	0V
6	0V
7	0V
8	6.4V

IC563	
PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	−11.7V
5	0V
6	0V
7	0V
8	6.4V

IC651	
PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	−13.2V
5	0V
6	0V
7	0V
8	11.0V

IC681	
PIN NO.	VOLTAGE
1	5.6V
2	5.6V
3	5.6V
4	0V
5	5.5V
6	5.6V
7	5.6V
8	11.1V

IC901	
PIN NO.	VOLTAGE
1	−35.4V
2	−35.4V
3	35.4V
4	0V
5	0V
6	0V
7	0V
8	−33V
9	33.6V
10	−0.1V
11	−0.1V
12	−32V
13	−0.1V
14	−0.1V
15	0V

IC951	
PIN NO.	VOLTAGE
1	26.2V
2	14.9V
3	0V
4	0V
5	14.9V
6	26.2V
7	29.2V
8	1.2V
9	0V
10	28.1V
11	0V
12	2.3V
13	0V
14	1.2V

Figure 30 SCHEMATIC DIAGRAM (13/13)

COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

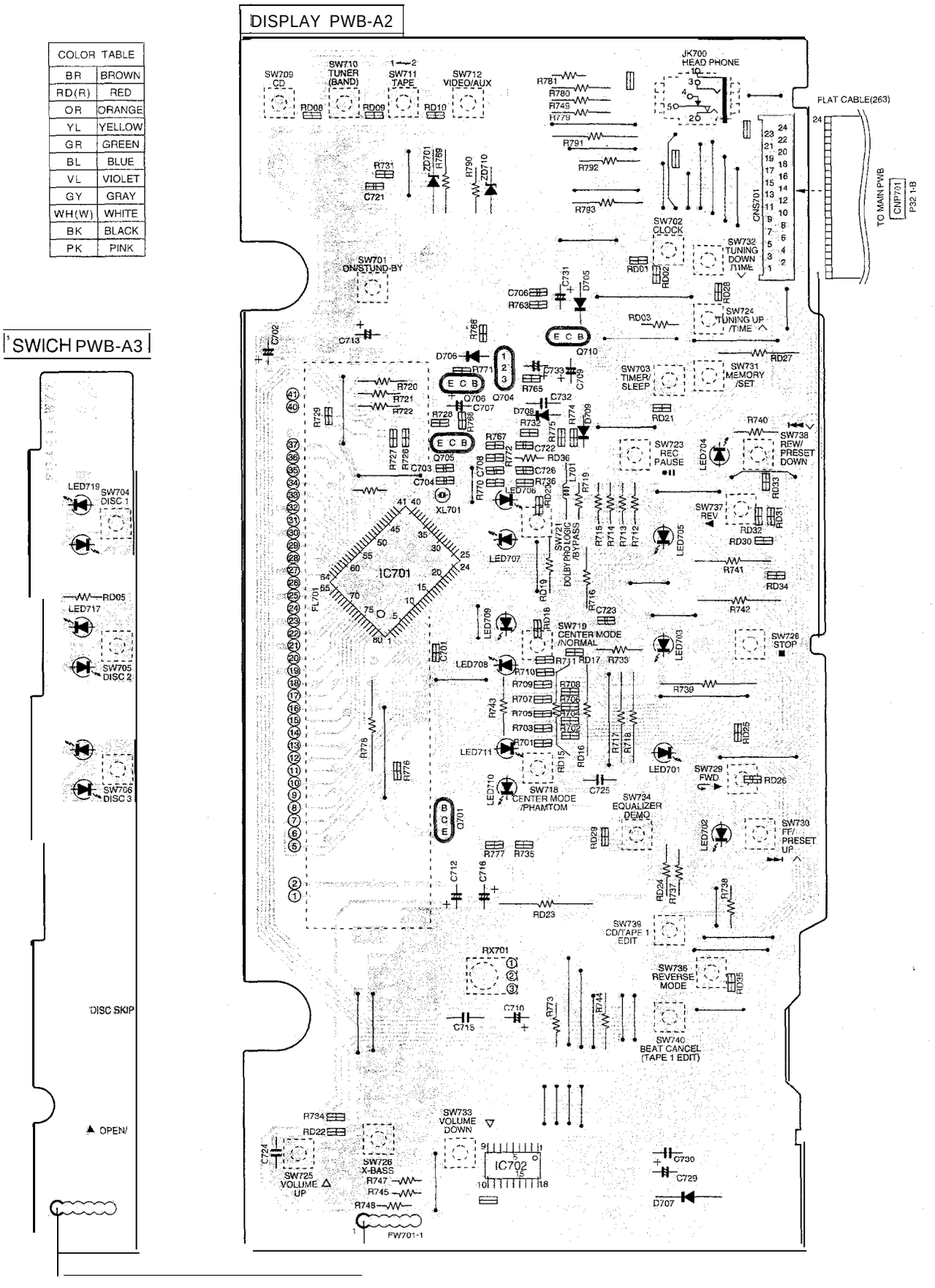


Figure 31 WIRING SIDE OF P.W.BOARD (1/8)

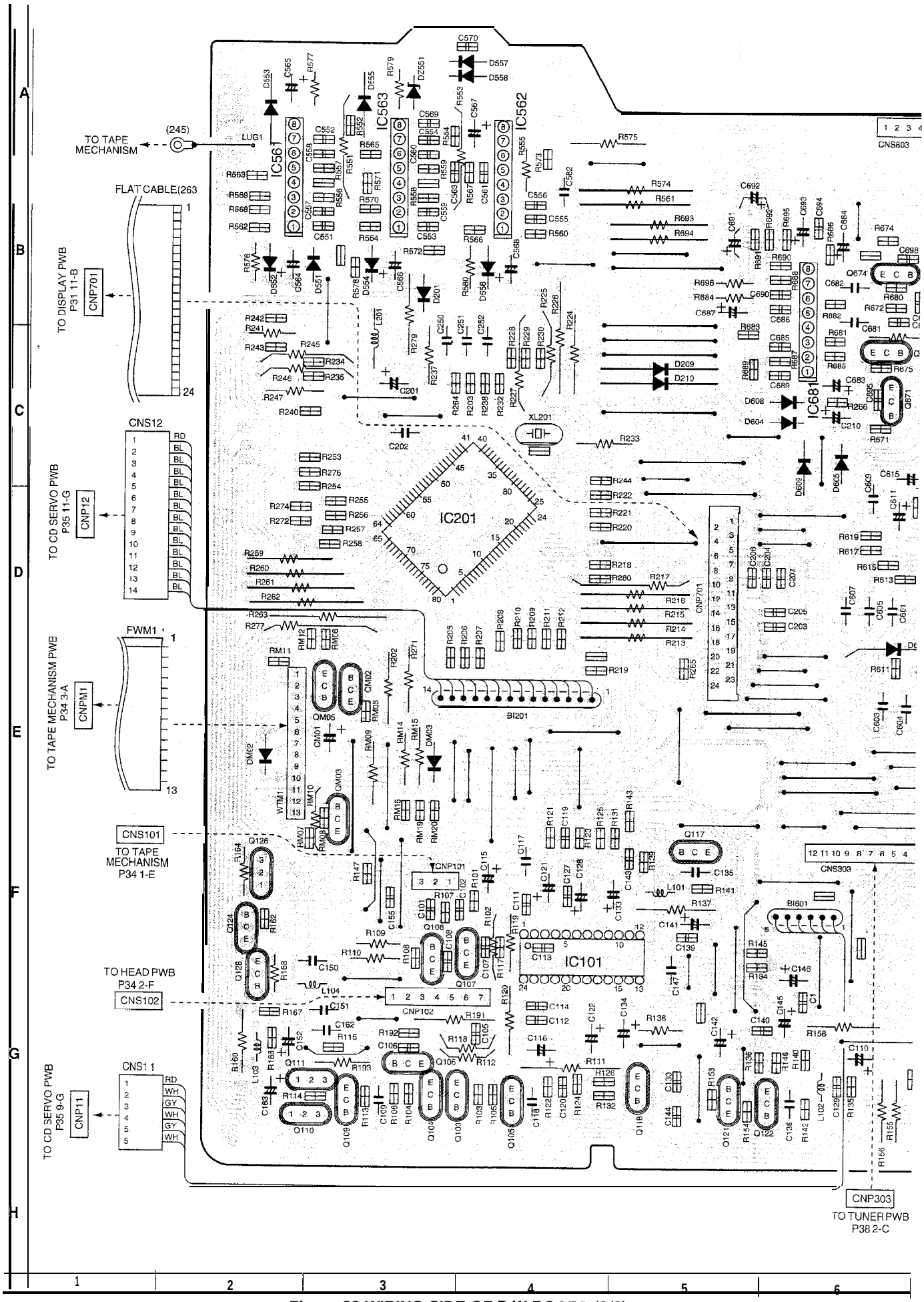


Figure 32 WIRING SIDE OF P.W.BOARD (2/8)

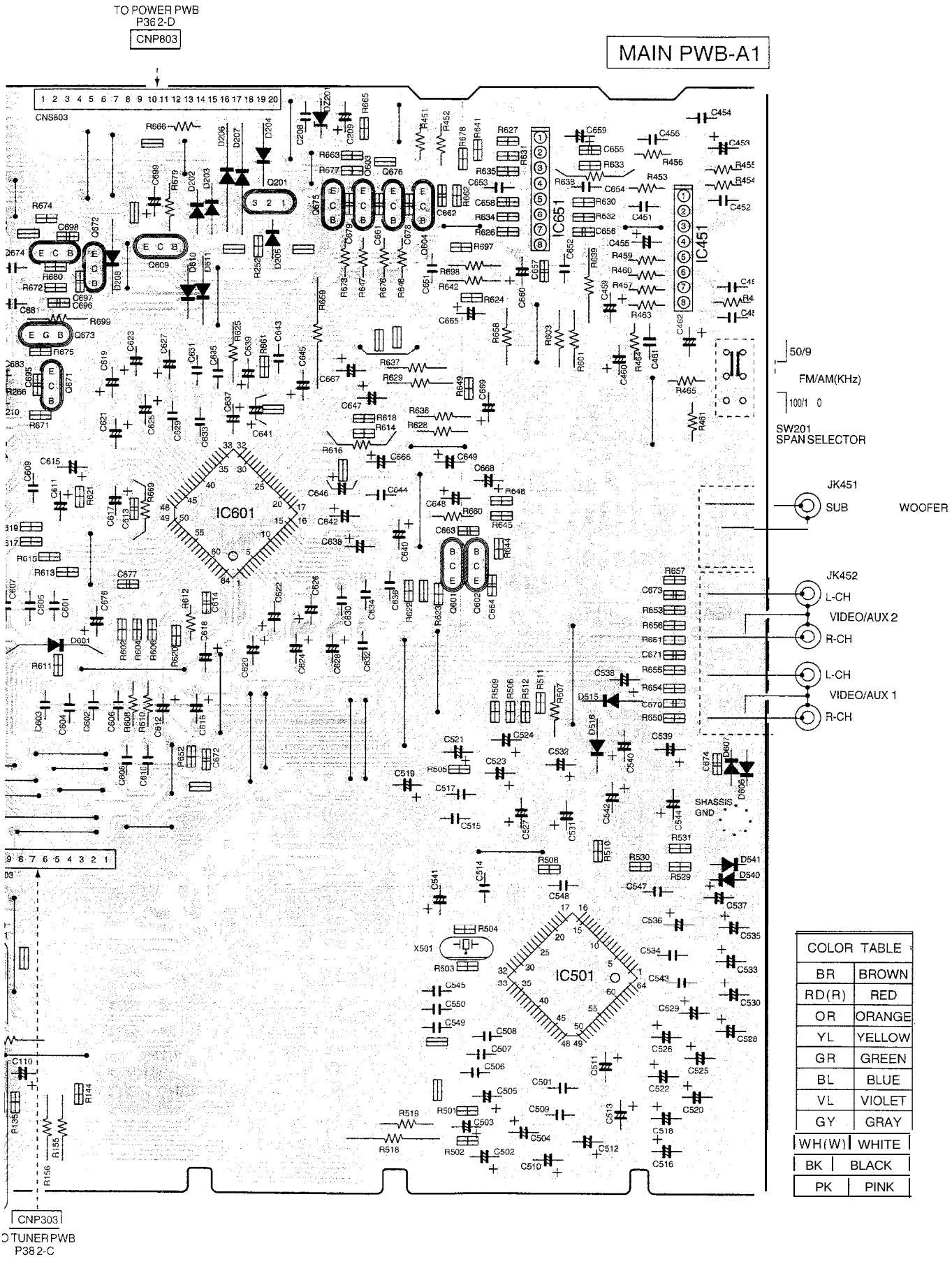
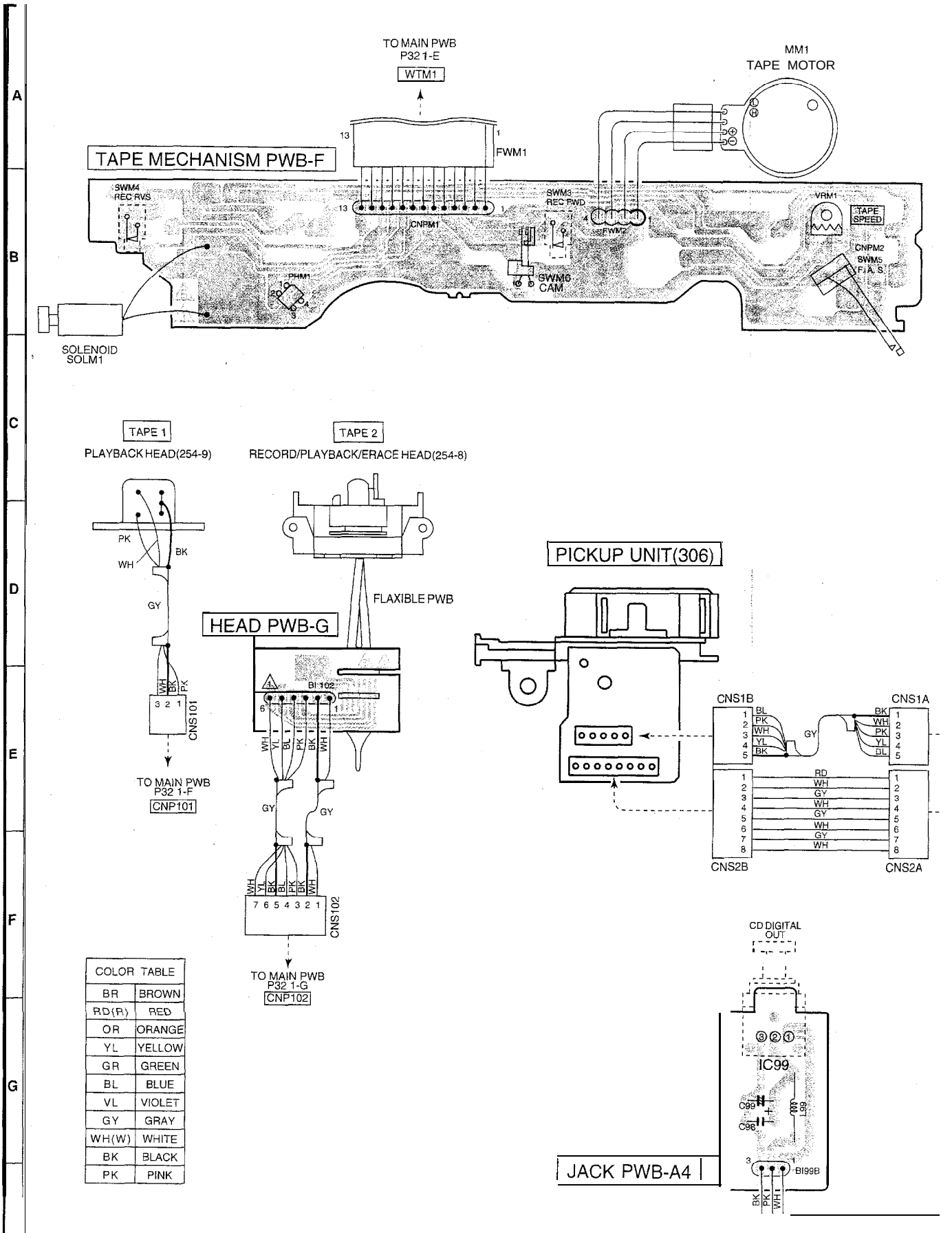


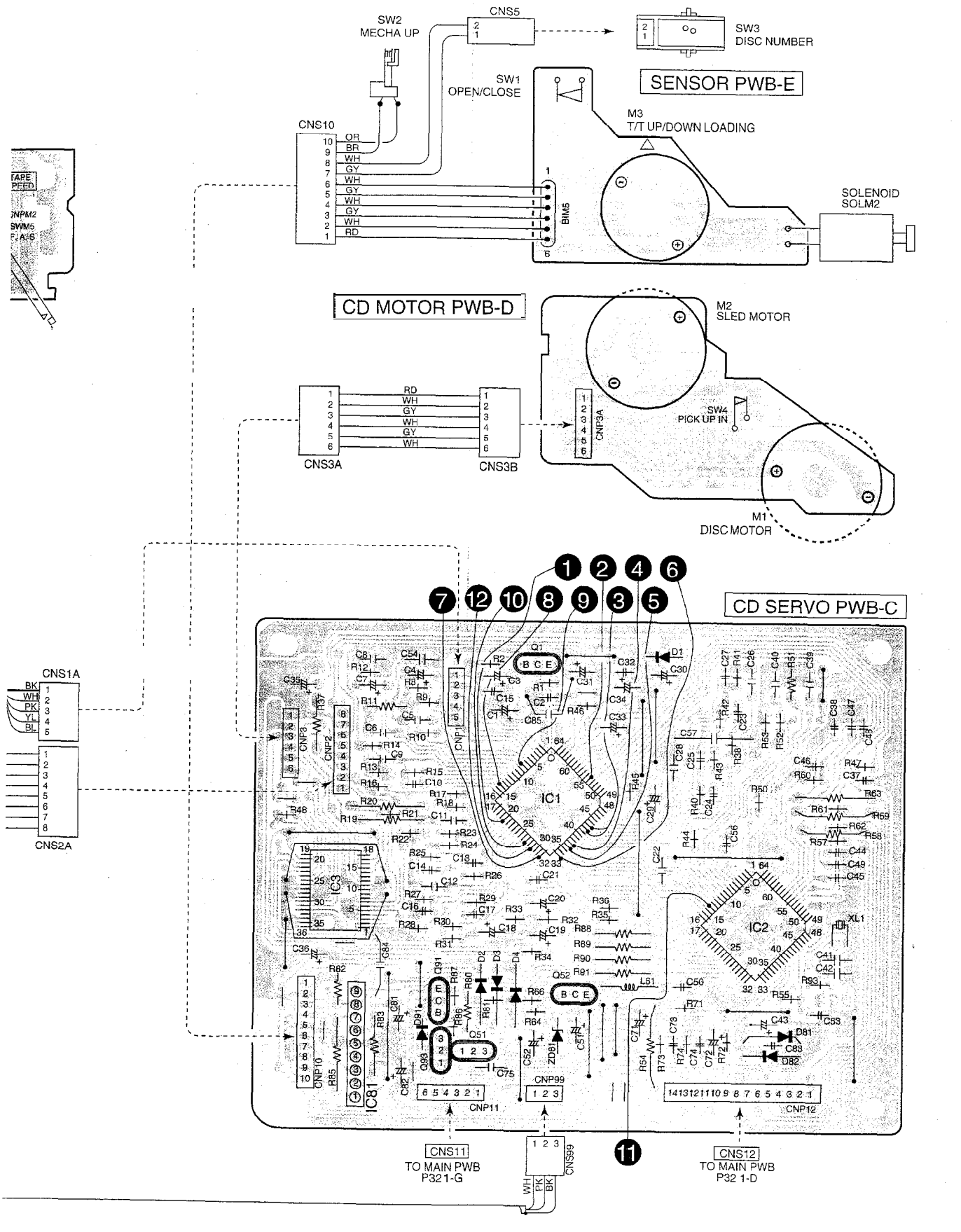
Figure 33 WIRING SIDE OF P.W.BOARD (3/8)



COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

• The numbers ❶ to ⓬ are waveform numbers shown in page 39.

Figure 34 WIRING SIDE OF P.W.BOARD (4/8)



7 8 9 10 11 12

Figure 35 WIRING SIDE OF P.W.BOARD (5/8)

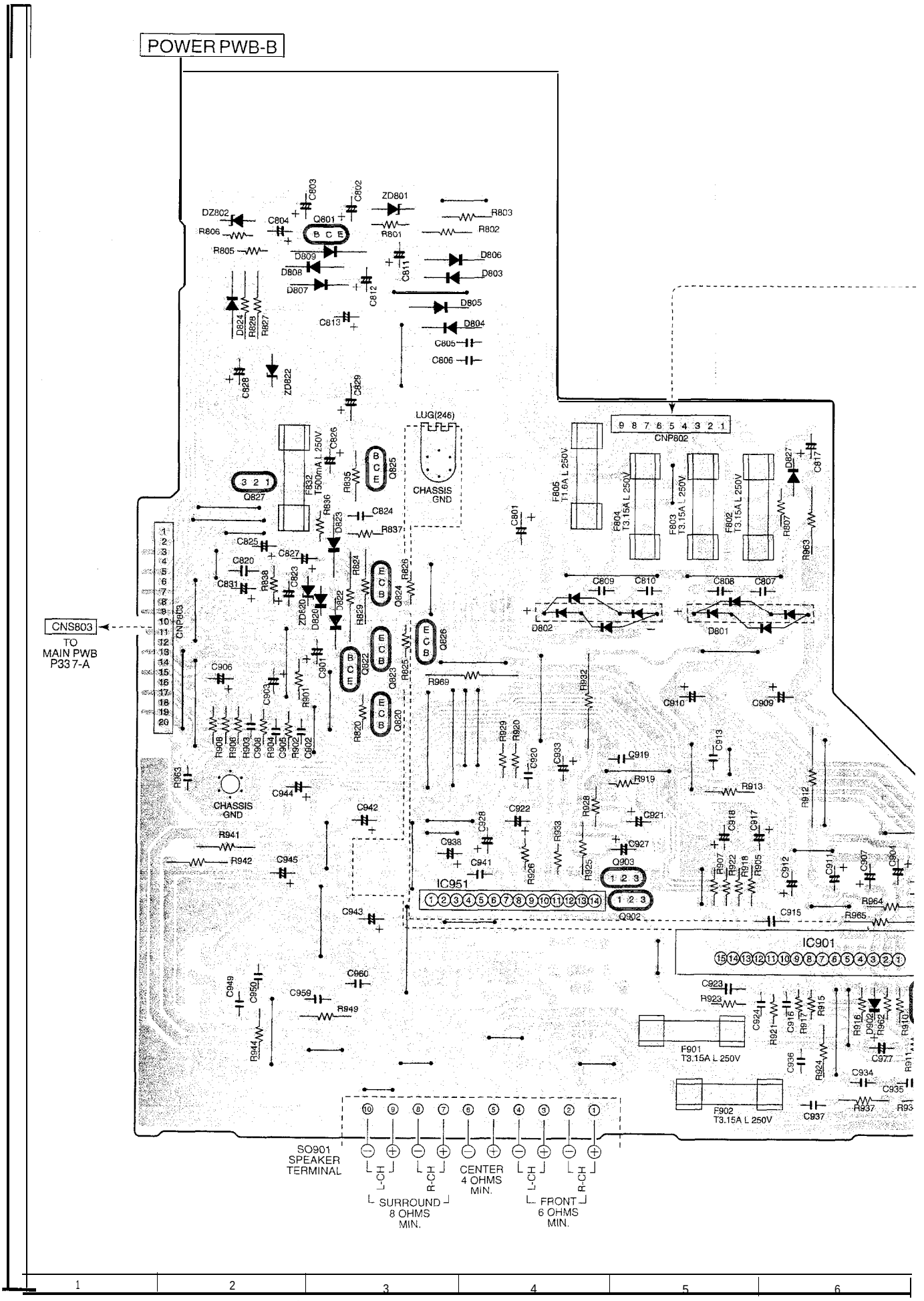


Figure 36 WIRING SIDE OF P.W.BOARD (6/8)

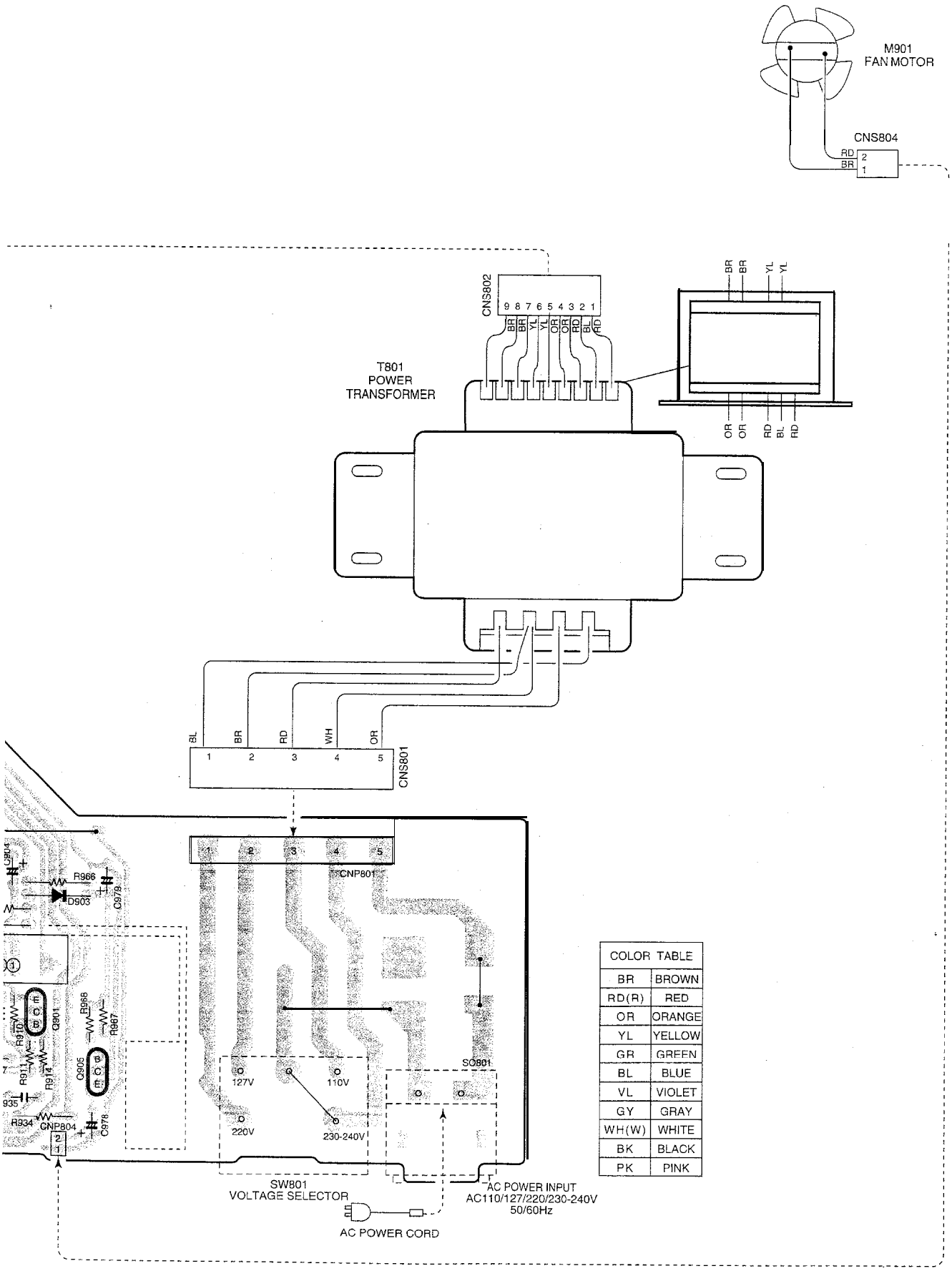


Figure 37 WIRING SIDE OF P.W.BOARD (7/8)

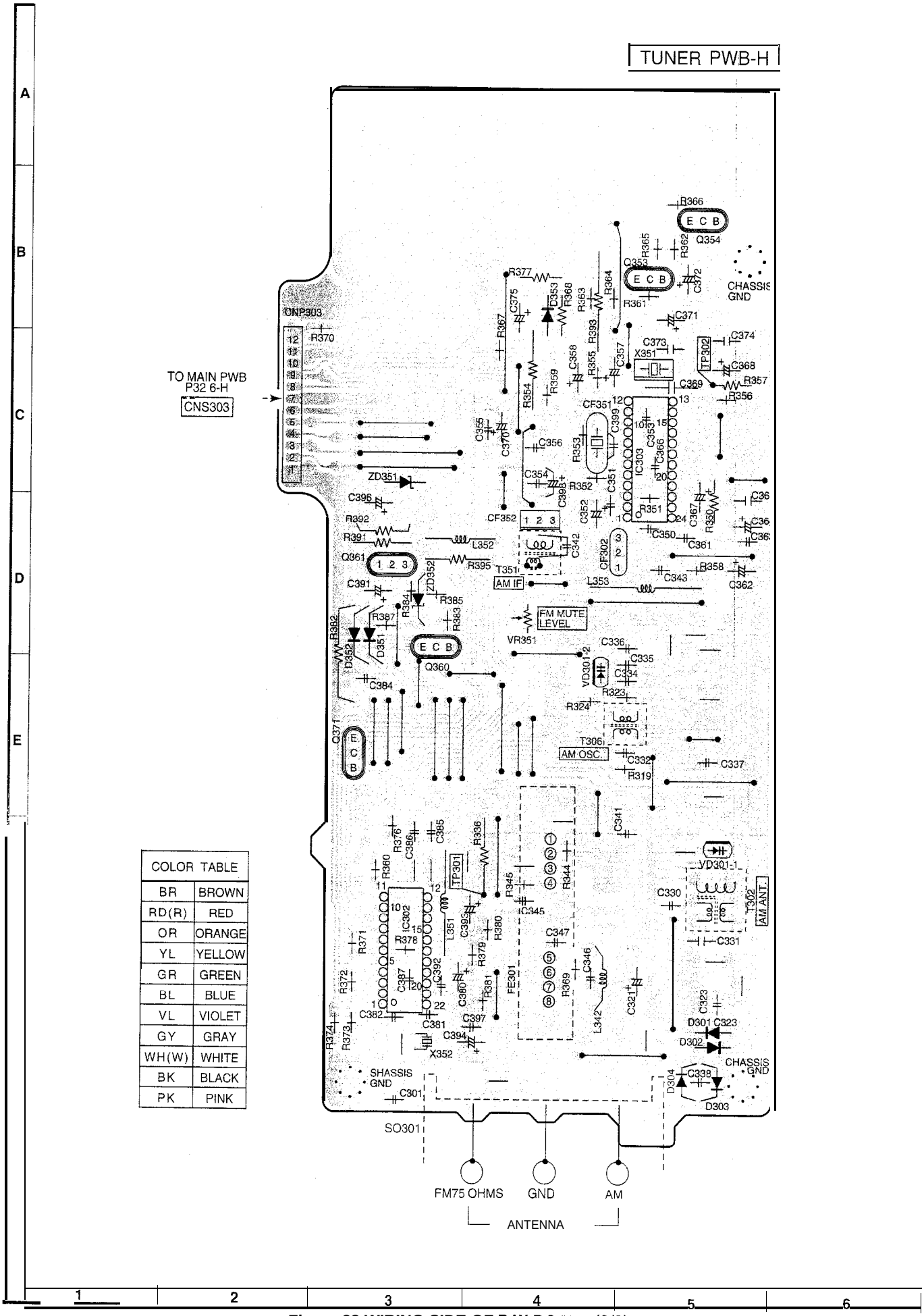


Figure 38 WIRING SIDE OF P.W.BOARD (8/8)

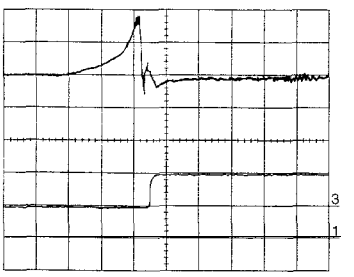
WAVEFORMS OF CD CIRCUIT

STOP → PLAY

FOCUS—SERCH

❶ 5ms 0.50 V IC1 (20) F.E

❷ 5ms 5.0 V IC1 (54) DRF

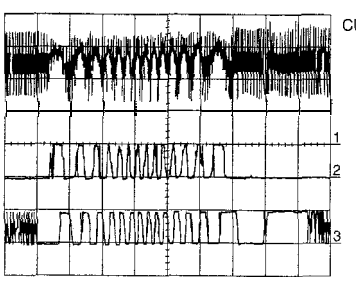


CUE

❸ 0.5ms 1.00 V HF

❹ 0.5ms 5.0 V HFL

❺ 0.5ms 5.0 V TES

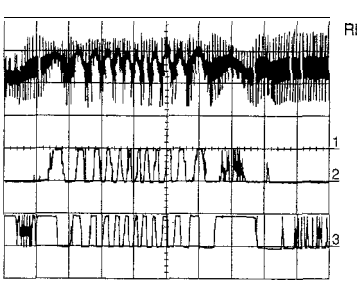


REVIEW

❸ 0.5ms 1.00 V HF

❹ 0.5ms 5.0 V HFL

❺ 0.5ms 5.0 V TES



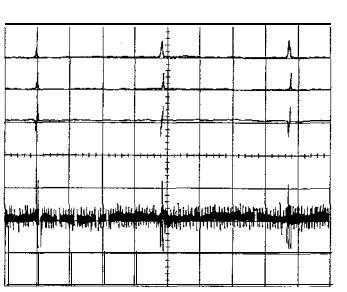
CUE

❻ 50ms 10.0 V JP+

❼ 50ms 10.0 V JP-

❽ 50ms 0.50 V JP

❾ 50ms 1.00 V TE

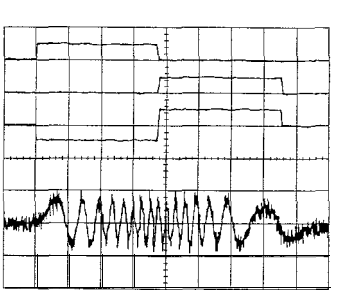


❻ 0.5ms 10.0 V JP+

❼ 0.5ms 10.0 V JP-

❽ 0.5ms 0.50 V JP

❾ 0.5ms 1.00 V TE



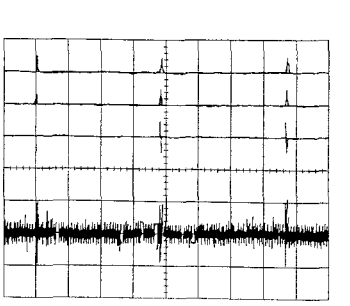
REVIEW

❻ 50ms 10.0 V JP+

❼ 50ms 10.0 V JP-

❽ 50ms 0.50 V JP

❾ 50ms 100 V TE

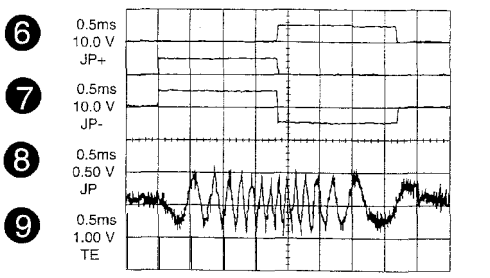


❻ 0.5ms 10.0 V JP+

❼ 0.5ms 10.0 V JP-

❽ 0.5ms 0.50 V JP

❾ 0.5ms 1.00 V TE

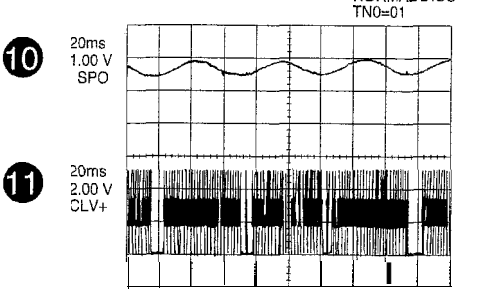


PLAY

NORMAL DISC TN0=01

❿ 20ms 1.00 V SPO

⓫ 20ms 2.00 V CLV+

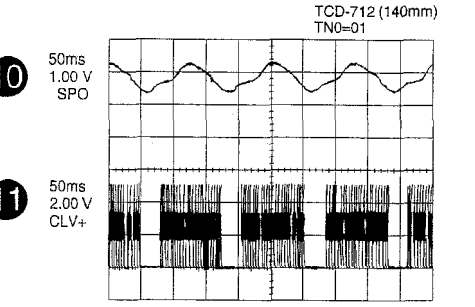


PLAY

TCD-712 (140mm) TN0=01

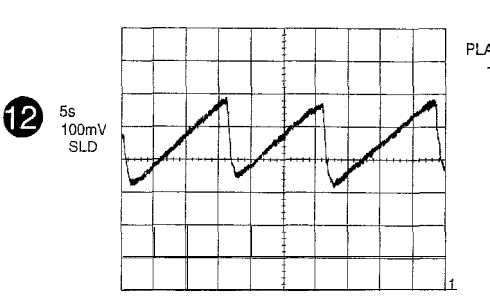
❿ 50ms 1.00 V SPO

⓫ 50ms 2.00 V CLV+

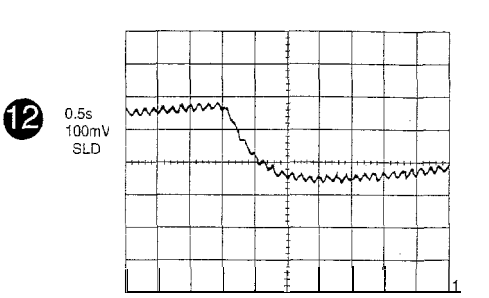


PLAY TCD-712

⓬ 5s 100mV SLD



⓬ 0.5s 100mV SLD



TROUBLESHOOTING (CD SECTION)

When the CD does not function

When the CD section does not operate When the objective lens of the optical pickup is dirty,this section may not operate.Clean the objective lens,and check the playback operation.When this section does not operate even after the above step is taken,check the following items.

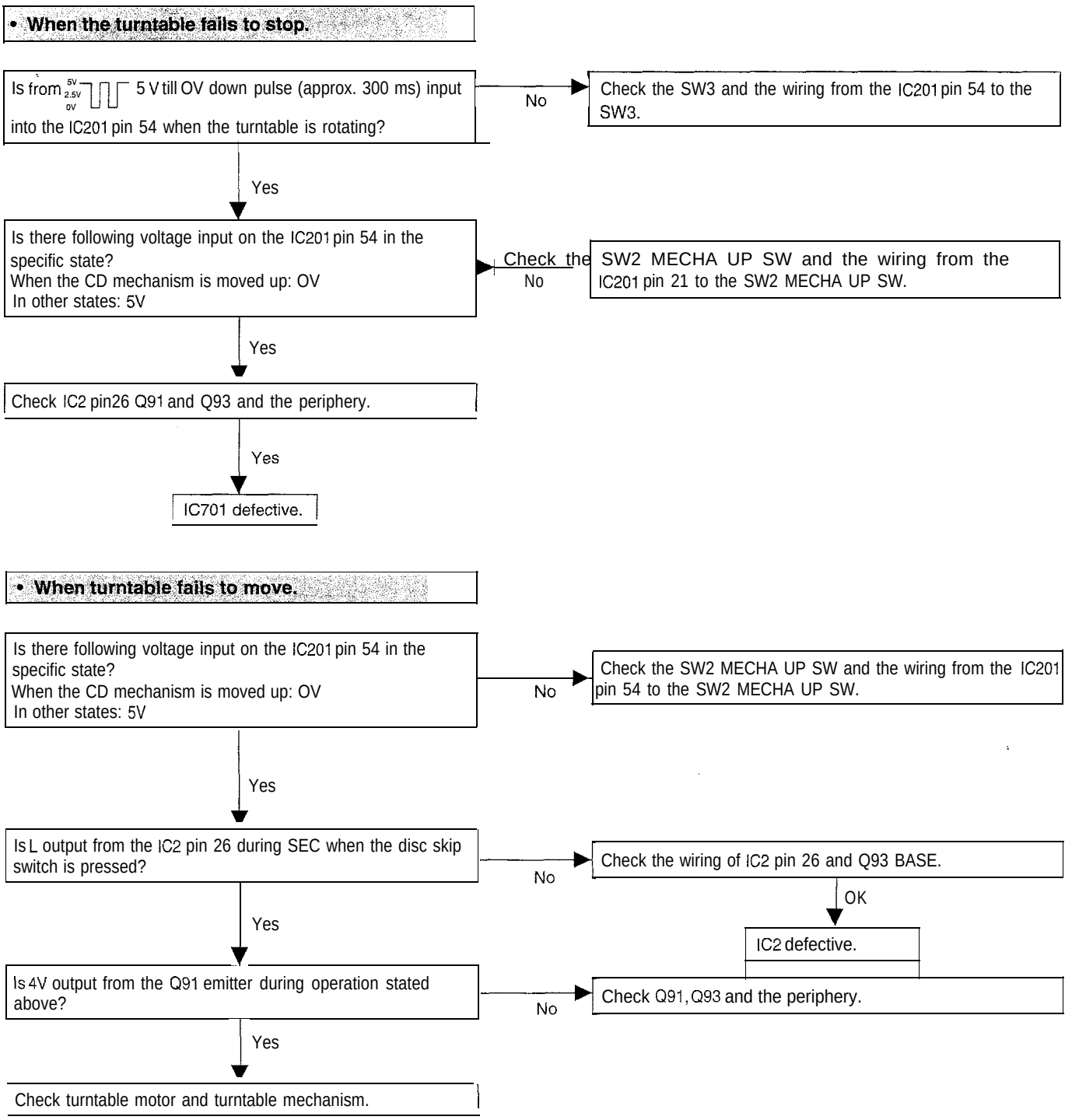
Remove the cabinet and follow the troubleshooting instructions.

"Track skipping and/or no TOC(Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

Turn the power off.

Gently clean the lens with a lens cleaning tissue and a small amount of isopropyl alcohol.

Do not touch the lens with the bare hand.


• When the turntable fails to stop.
Is from 5V 2.5V 0V 5 V till OV down pulse (approx. 300 ms) input into the IC201 pin 54 when the turntable is rotating?
No
Check the SW3 and the wiring from the IC201 pin 54 to the SW3.
Yes
Is there following voltage input on the IC201 pin 54 in the specific state?
When the CD mechanism is moved up: OV
In other states: 5V
Check the
No
SW2 MECHA UP SW and the wiring from the IC201 pin 21 to the SW2 MECHA UP SW.
Yes
Check IC2 pin26 Q91 and Q93 and the periphery.
Yes
IC701 defective.
• When turntable fails to move.
Is there following voltage input on the IC201 pin 54 in the specific state?
When the CD mechanism is moved up: OV
In other states: 5V
No
Check the SW2 MECHA UP SW and the wiring from the IC201 pin 54 to the SW2 MECHA UP SW.
Yes
Is L output from the IC2 pin 26 during SEC when the disc skip switch is pressed?
No
Check the wiring of IC2 pin 26 and Q93 BASE.
OK
IC2 defective.
Yes
Is 4V output from the Q91 emitter during operation stated above?
No
Check Q91, Q93 and the periphery.
Yes
Check turntable motor and turntable mechanism.

• When the CD tray fails to open or close.

Is there following voltage input in specific state of IC701 pin 53?
Open state: OV
Close state: OV
Intermediate state between open state and close state: 5V

No → Check the OPEN CLOSE SW and the wiring from the IC701 pin 53 to the OPEN CLOSE SW.

Yes ↓

Is H output to IC2 pin 24 or 25 for 7 seconds when the OPEN/CLOSE key is pressed?IC81is defective. Replace it.

No → Check the wiring of the IC2 pins 24 and 25, IC81 pins 1 and 3.
OK ↓
IC2 defective.

Yes ↓

Is 4V output between IC81 pins 3 and 7 during operation stated above?

No → Check the periphery of IC81.
OK ↓
IC81 defective.

Yes ↓

Check the loading motor (M3) and the loading mechanism.

• The CD function will not work.

The CD operating kevs don't work.

Yes ↓

Check the CD, DSP, power supply, and 16.93 MHz clock, and reset terminal.

Yes ↓

Check the waveform of SCK, SO (DATA) and SI (COMM).

Yes ↓

See if the pick-up is in the PICKUP IN SW position.

Yes ↓

If the items mentioned above are OK, check the main microcomputer IC701.

• The CD operating keys work.

Check the Focus - HF system.

Playback can be performed without a disc.

Yes ↓

Does the pick-up move up and down twice?

Yes → Focus search OK

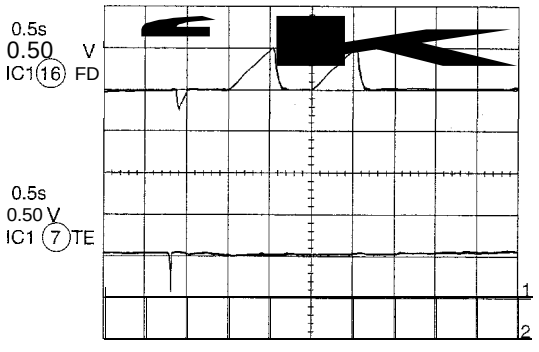
No ↓

Does the output waveform of IC1(16)(FD) match that shown in Fig. 41?

Yes → Check the area around IC3-CNP2.

No ↓

Check the IC1(50)(CLK) line, 4MHz.
Check the microcomputer data on pins (51)(CL),(52)(DAT) and (53)CE.



Focus search is performed two times when play operation is done without disc.

Figure 41

• Playback can only be performed when a disc is loaded.

Is the Focus servo active? (Can you hear it working?)

No → Check the laser diode driver.
Check the area around IC1(16) - (21) (focus servo circuit).

Yes ↓

Does the DRF signal change from "L" to "H"?

No → If the disc is not turning, the DRF should not change to "H". → Yes → Check the spin system.

Yes ↓

Is HF waveform normal (see the Fig. 42-1,2)?

No → Level is abnormal. → Yes → Check the periphery of IC1 pins 41 and 42.

Yes ↓

Check the tracking system.

No → Waveform is unstable. → Yes → Check the spin system.

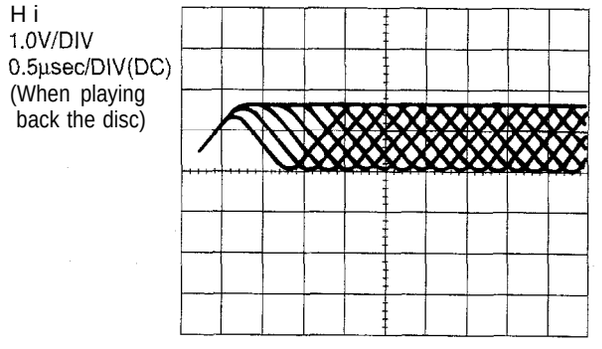
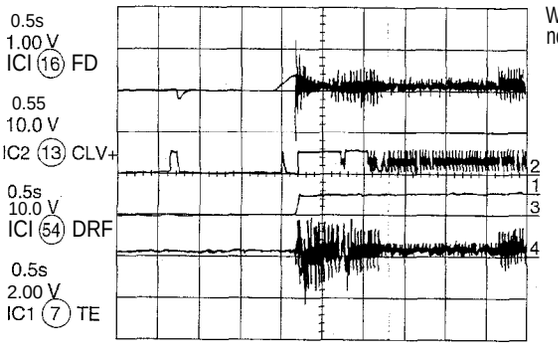


Figure 42-1



Waveform in case of normal play-back

Figure 42-2

• Check the tracking system.

Check waveform of IC1 pin 7 (TE).

The waveform shown in Fig. 42-3 appears, and no-disc state appears soon. → Yes → Tracking servo is inoperative. → Yes → Check the periphery of IC 1 pin 8 to pin 15, and IC 3 to CNP2.

Play is possible in TEST mode. → Yes → Although IL is possible, play is impossible. → Yes → Normal jump is impeded, and the program top cannot be reached. → Yes → Check the periphery of IC 1 pin 14.

Data cannot be read. → Yes → Check the VCO-PLL system.

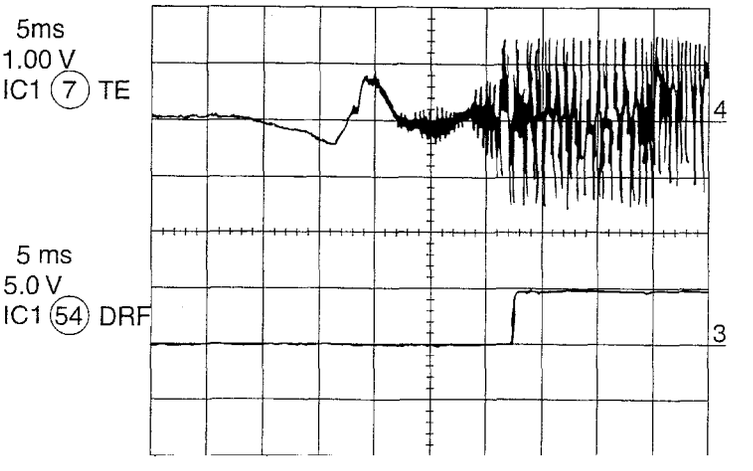


Figure 42-3

• Checking the spin system,

Play operation is performed without disc.

Yes

The turntable rotates a little. — Yes → The spin driver circuit is normal.

No

The turntable fails to rotate or rotates at high speed. — Yes → Check the periphery of IC1 pins 23 to 27, pin 39, and pin 40, IC2 pin 12 and pin 13, IC3 to CNP3.

• Checking the VCO-PLL system

Play operation is performed when disc exits.

Yes

Although HF waveform is normal, TOC data cannot be read. — Yes → Check PDO waveform (Fig. 43).

Abnormal

Check the IC1 pins 43 and 44, IC2 pins 3. 5, 7, 10, and 11.

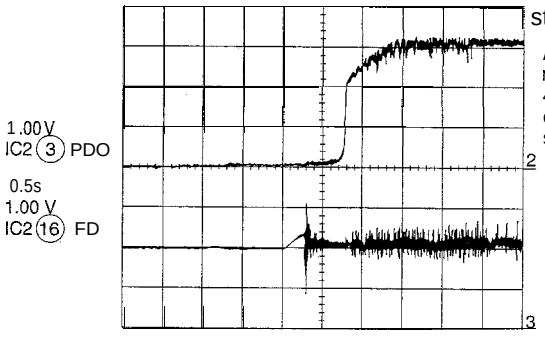


Figure 43

• Although HF waveform is normal and the time indication is normal, no sound is emitted.

Check IC 2 pin 48 (EFLG). — No → Usually, the number of pulses of flawless disc is 100 pulses/sec or less.

Yes

Check IC2 pins 37, 40.

Abnomal

Check IC 601 and POWER AMP IC 901.

FUNCTION TABLE OF IC

IC2 VHiLC78622K-1 :Servo/Signal Control(LC78622K) (1/2)

Pin No.	Terminal Name	Input/Output	Function	
1	DEFI	Input	Input terminal of defect detection signal (DEF). (Connected to OV when not used.)	
2	TAI	Input	For PLL	Input terminal for test. Pull-down resistor is integrated. Surely connected to OV.
3	PDO	output		Output terminal of phase comparison for external VCO control.
4	vvss	—		Ground terminal for integrated VCO. Surely connected to 0V.
5	ISET	Input		Resistance connection terminal for current adjustment of PDO output.
6	VVDD	—		Power terminal for integrated VCO.
7	FR	input		VCO frequency range adjustment.
8	**VSS**	—	Ground terminal of digital system. Surely connected to 0V.	
9	EFMO	output	For slice level control	EFM signal output terminal.
10	EFMIN	Input		EFM signal input terminal.
11*	TEST2	Input	Input terminal for test. Pull-down resistor is integrated. Surely connected to OV.	
12	CLV+	Outout	Output for disk motor control. 3 values can be output with the commands.	
13	CLV-	Output	Output for disk motor control. 3 values can be output with the commands.	
14	V/P	output	Monitor output terminal for automatic switch of rough servo/phase control. "H" for rough servo. and "L" for phase servo.	
15	HLF	Intput	Input terminal of track detection signal. Schmit input.	
16	TES	Input	Input terminal of tracking error signal. Schmit input.	
17	TOFF	output	Tracking OFF output terminal.	
18	TGL	output	Output terminal for switch of tracking gain "L" increases the gain.	
19	JP+	output	Output for track jump control. 3 values can be output with the commands.	
20	JP-	output	Output for track jump control. 3 values can be output with the commands.	
21*	PCK	output	Clock monitor terminal for EFM data replay. 4,3218MHz as the phase clock.	
22*	FSEQ	output	Output terminal synchronous signal detection. "H" is output when synchronous signal detected by EFM signal matches synchronous signal internally generated.	
23	VDD	—	Power terminal of diaital svstem.	
24	CONT1	Input/Output	General purpose input/output terminal 1	Controlled with serial data command from micro computer. When not used, set it as the input terminal and open it by connecting to OV, or set it as the output terminal and open it.
25	CONT2	input/Output	General purpose input/output terminal 2	
26	CONT3	Input/Output	General purpose input/output terminal 3	
27	CONT4	input/Output	General purpose input/output terminal 4	
28*	CONT5	Input/Output	General purpose input/output terminal 5	
29*	EMPH	output	Difference monitor terminal At "H", deemphasis disk is being replayed.	
30*	C2F	Outout	C2 flag output terminal.	
31	DOUT	Output	Output terminal of digital OUTPUT. (EIAJ format)	
32*	TEST3	Input	Input terminal for test. Pull-down resistor is integrated. Surely connected to 0V.	
33	TEST4	Input	input terminal for test. Pull-down resistor is integrated. Surely connected to OV.	
34	N.C.	—	Terminal not used. Open during operation.	
35*	MUTEL	output	L channel 1 bit DAC	Mute output terminal for L channel.
36	LVDD	—		Power terminal for L channel.
37	LCHO	output		L channel output terminal.
38	LVSS	—		Ground terminal for L channel Surely connected to 0V.
39	RVSS	—	R channel 1 bit DAC	Ground terminal for R channel Surely connected to OV.
40	RCHO	output		R channel output terminal.
41	RVDD	—		Power terminal for R channel.
42*	MUTER	output		Mute output terminal for R channel.
43	XVDD	—	Power terminal for quartz oscillation.	
44	XOUT	output	Ground terminal of 16.9344 MHz quartz oscillator.	
45	XIN	Input	Ground terminal of 16.9344 MHz quartz oscillator.	
46	xvss	—	Ground terminal for quartz oscillation. Surely connected to OV.	
47*	SBSY	output	Output terminal of synchronous signal of subcode block.	
48*	EFLG	output	Correction monitor terminal of CI, C2, single and double.	

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC2 VHiLC78622K-1 :Servo/Signal Control(LC78622K) (1/2)

Pin No.	Terminal Name	Input/Output	Function
49*	PW	Output	Output terminal of subcodes P, A, R, S, T, U and W.
50*	SFSY	Output	Output terminal of synchronous signal of subcode frame. It drops when subcode stands by.
51	SBCK	Input	Clock input terminal to read subcode. Schmit input (Connected to 0V when not used.)
52*	FSX	Output	Output terminal of synchronous signal of 7.35kHz divided from quartz oscillation.
53	WRQ	Output	Output terminal to stand by output of subcode Q.
54	RWC	Input	Input terminal of read/write. Schmit input.
55	SQOUT	Output	Output terminal of subcode Q.
56	COIN	Input	Command input terminal from microcomputer.
57	$\overline{CQCK}$	Input	Clock input terminal to fetch command input, or pick up subcode from SQOUT. Schmit input
58	$\overline{RES}$	Input	Reset input terminal of LC78622. When turning on power, set it at "L".
59*	TST11	Output	Output terminal for test. Used in the open state ("L" output as ordinary).
60*	16M	Output	Output terminal of 16.9344Hz.
61	4.2M	Output	Output terminal of 4.2336MHz.
62	TEST5	Input	Input terminal for test Pull-down resistor is integrated. Surely connected to 0V.
63	$\overline{CS}$	Input	Chip selection input terminal. Pull-down resistor is integrated. Connected to 0when not controlled.
64	TEST1	Input	Input terminal for test Pull-down resistor is integrated. Surely connected to 0V.

Note: The same potential must be supplied to the, power terminals (VDD, VVDD, LVDD, RVDD, XVDD).

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

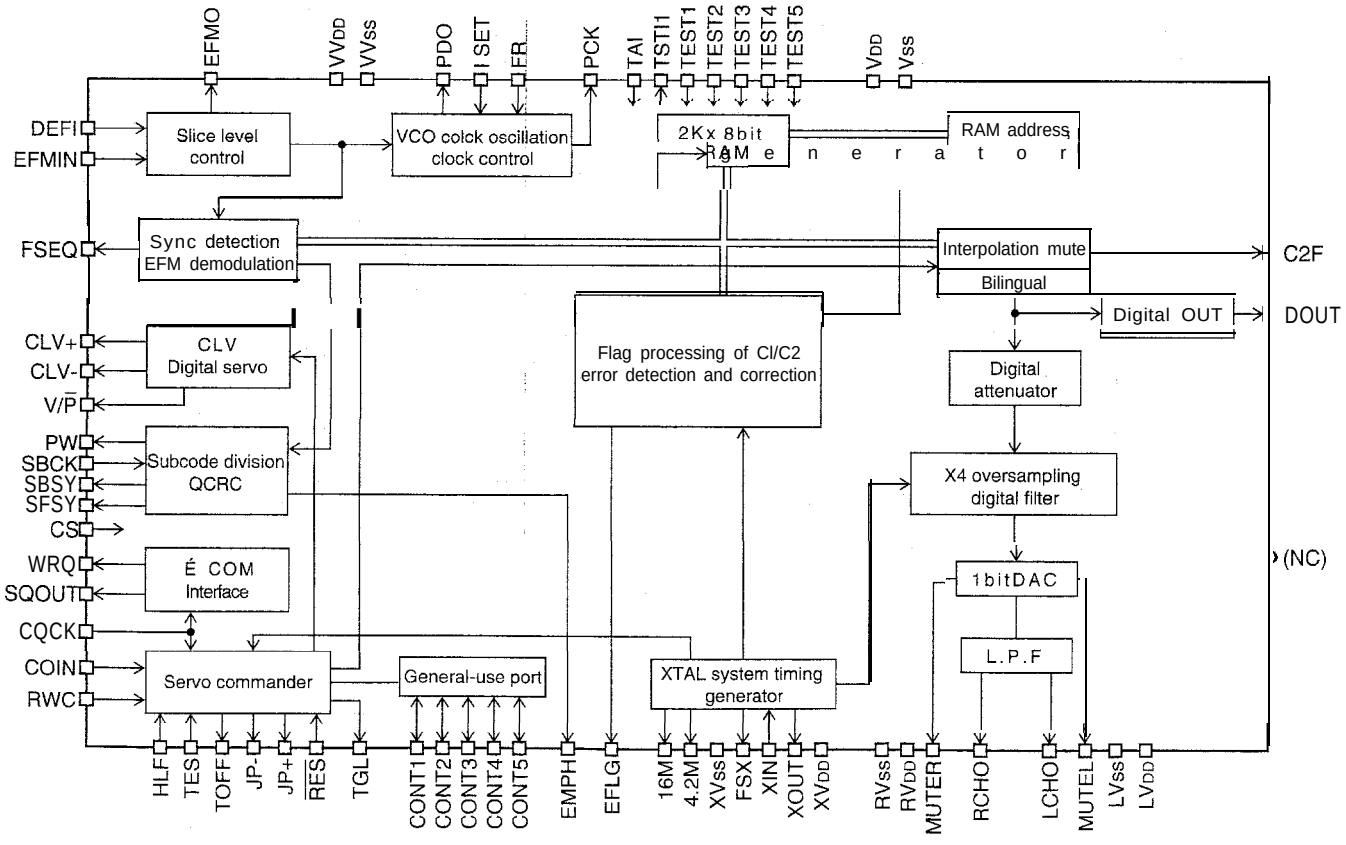


Figure 45 BLOCK DIAGRAM OF IC

IC1 VHiLA9241 M/-1:Servo Amp.,(LA9241 M) (1/2)

Pin No.	Port Name	Function
1	FIN2	Connection pin for photodiode of pickup. RF signal is generated through addition with FIN pin, and FE signal is generated through subtraction.
2	FIN1	Connection pin for photodiode of pickup.
3	E	Connection pin for ohotodiode of pickup. TE signal is aenerated throuah subtraction with F pin.
4	F	Connection pin for photodiode of pickup.
5	TB	Pin for input of DC component of TE signal.
6	TE-	Pin to connect gain setting resistor of TE signal to TE signal.
7	TE	TE signal output pin.
8	TESI	TES (Track error sense) comparator input pin. TE signal is band-passed and input.
9	SCI	Input pin for shock detection.
10	TH	Pin to set time constant of tracking gain.
11'	TA	TA amplifier output pin.
12	TD-	Pin to compose tracking phase compensation constant between TD and VR pins.
13	TD	Pin to set tracking phase compensation.
14	JP	Pin to set amplitude of tracking jump signal (kick pulse).
15	TO	Tracking control signal output pin.
16	FD	Focusing control signal output pin.
17	FD-	Pin to compose focusing phase compensation constant between FD and FA pins.
18	FA	Pin to compose focusing phase compensation constant between FD-/FA-pins.
19	FA-	Pin to compose focusing phase compensation constant between FA and FE pins.
20	FE	Output pin of FE signal.
21	FE-	Pin to connect gain setting resistor of FE signal across TE pin.
22	AGND	GND for analog signal.
23	SP	Single end output for CV+ and CV- pin input.
24	SPI	Spindle amplifier input.
25	SPG	Pin to connect aain settina resistor in the 12cm mode of spindle.
26	SP-	Pin to connect spindle phase compensation constant toaether with SPD pin.
27	SPD	Spindle control signal output pin.
28	SLEQ	Pin to connect thread phase compensation constant.
29	SLD	Thread control signal output pin.
30	SL-	Input pin of thread feed signal from micro computer.
31	SL+	input pin of thread feed signal from micro computer.
32	JP-	Input pin of tracking jump signal from DSP.
33	JP+	Input pin of tracking jump signal from DSP.
34	TGL	input pin of tracking gain control signal from DSP. TGL = Gain low at "H"
35	TOFF	Input pin of tracking off control signal from DSP. TOFF = Off at "H"
36	TES	Output pin of TES signal to DSP.
37	HFL	(HIGH FREQUENCY LEVEL) is used to judge whether main beam is positioned on the bit or on the mirror.
38	SLOF	Thread servo off control input pin.
39	CV-	Pin to input CLV error signal from DSP.
40	CV+	Pin to input CLV error signal from DSP.
41	RFSM	RF output pin.
42	RFS-	Pin to set aain of RF and set 3T compensation constant toaether with RFSM pin.
43	SLC	(SLICE LEVEL CONTROL) is the output pin to control of the level of the data slice with RF waveform DSP.
44	SLI	Input pin to control the level of data slice with DSP.
45	DGND	GND pin in the digital system.
46	FSC	Output pin for focus search smoothening capacitor.
47	TBC	(Tracking Balance Control) Pin to set EF balance variable range.
48*	NC	———
49	DEF	Defect detection output pin of disk.
50	CLK	Reference clock input pin. 4.23MHz of DSP is input.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC1VHiLA9241M/-1:Servo Amp.,(LA9241 M) (2/2)

Pin No.	Port Name	Function
51	CL	Micro computer command clock input pin.
52	DAT	Micro computer command data input pin.
53	CE	Micro computer command chip enable input pin.
54	DRF	(DETECT RF) RF level detection output.
55	FSS	(Focus Serch Select) Pin to switch focus search mode. (± search/+ search for reference voltage)
56	vcc2	VCC pin for servo system and digital system.
57	REFI	Pin to connect pass control for reference voltage.
58	VR	Reference voltage output pin.
59	LF2	Pin to set defect detection time constant of disk.
60	PH1	Pin to connect capacitor for peak hold of RF signal.
61	BH1	Pin to connect capacitor for bottom hold of RF signal.
62	LDD	APC circuit output pin.
63	LDS	APC circuit output pin.
64	VCC1	RF system VCC pin.

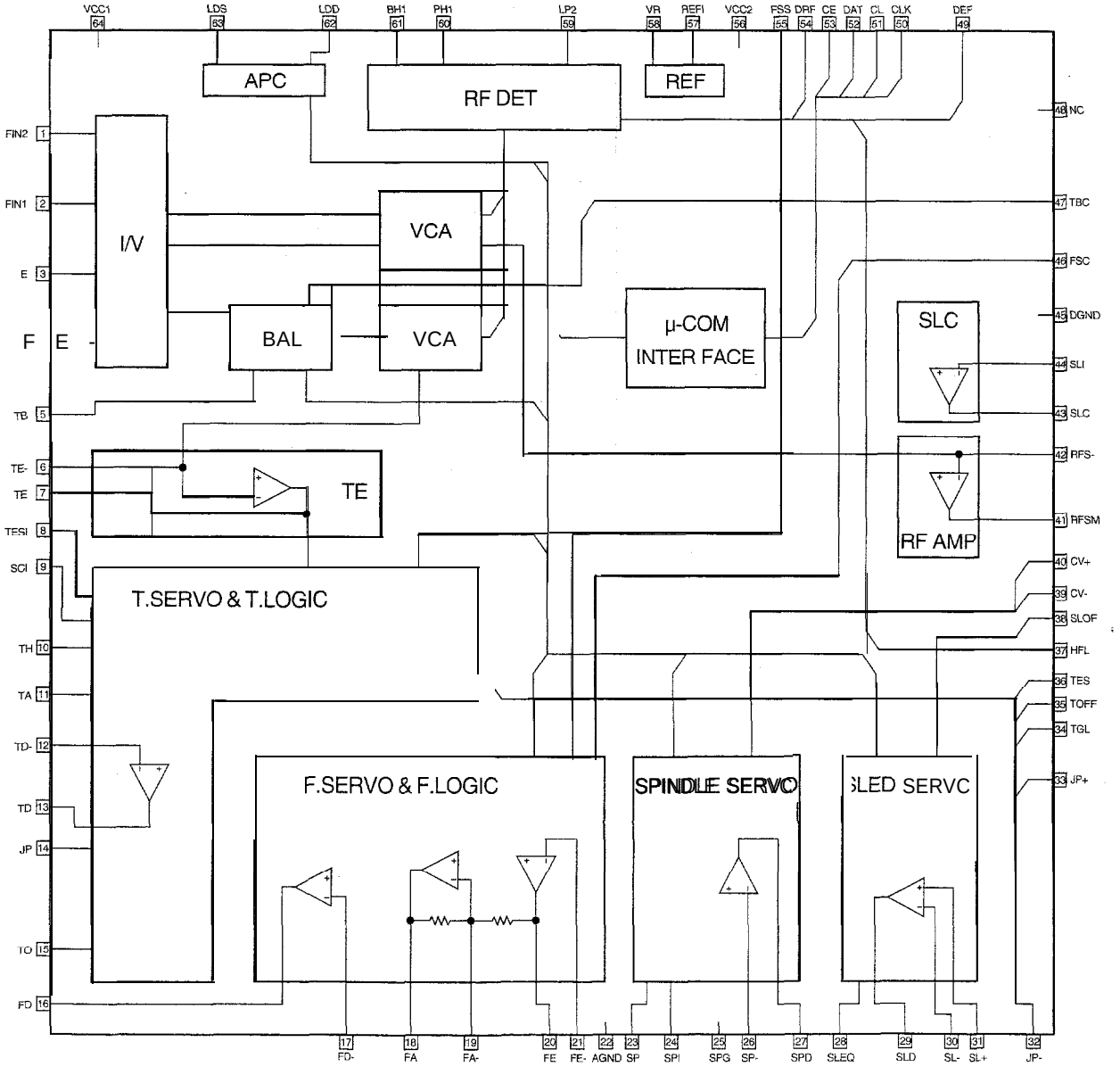


Figure 47 BLOCK DIAGRAM OF IC

IC201 RH-iX0171AWZZ:System Microcomputer (IX0171 AW) (1/2)

Pin No.	Terminal Name	Input/Output	Function
1*	———	Output	———
2	REC/PB	—	Record/Playback selection signal
3*	- - - -	output	———
4*	CD MUT	output	CD MUT signal
5	CD RES	output	CD DSP RESET signal
6	CD SL-	output	Slide return signal
7	CD SL+	output	Slide feed signal
8	VDD	—	Power connection terminal
9	CD CQCK	output	CD IC control signal
10	CD COIN	Output	CD IC control signal
11	CD SQOUT	Input	CD IC control signal
12	CD WRQ	Input	CD IC control signal
13	CD RWC	output	CD IC control signal
14	SCK	Input	Main µCOM(RH-iX0170AWZZ) control signal
15	s o	output	Main µCOM(RH-iX0170AWZZ) control signal
16	SI	Input	Main µCOM(RH-iX0170AWZZ) control signal
17	RESET	Input	Main µCOM(RH-iX0170AWZZ) control signal
18	STROBE	Input	Main µCOM(RH-iX0170AWZZ) control signal
19	CD PU-IN SW	Input	Pickup position detection
20	AVSS	—	To be connected to GND
21	CD DRF	Input	CD RF level detection input H: When RF level is H
22	T1 RUN	Input	Tape 1: Rotation pulse input
23	T2 RUN	Input	Tape 2: Rotation pulse input
24	SPEANA 5	Input	63Hz BPF spectrum analyzer input
25	SPEANA 4	Input	250Hz BPF spectrum analyzer input
26	SPEANA 3	Input	1 kHz BPF spectrum analyzer input
27	SPEANA 2	Input	4kHz BPF spectrum analyzer input
28	SPEANA 1	Input	16kHz BPF spectrum analyzer input
29	AVDD	—	A/D converter analog positive power
30	AVREF	—	A/D converter reference power
31	TAPE CUM SW	Input	Tape mechanism cam SW input terminal
32*	———	—	No connected
33	vss	—	To be connected to GND
34	X1	—	Main clock terminal, not used
35	X2	—	Main clock terminal, not used
36*	LINE MUT	output	Line mute output, not used
37	SURROUNDMUT	output	Surround mute output
38	CENTER MUT	output	Center SP output mute output
39	SYSTEM MUT	output	System mute output
40	MIC	input	Mic input terminal (for detection)
41	EN	output	DOLBY PRO logic IC control signal
42	DATA	Output	DOLBY PRO logic IC control signal
43	CLK	output	DOLBY PRO logic IC control signal
44	SP DET	Input	Speaker output error detection input Occurrence of error: L
45	POWER	output	Set power control output Power ON: H
46'	RELAY	output	Speaker output relay control output Relay ON: H
47	TAPE TS CrO SW	Input	Tape mechanism 2 CrO_2 detection input CrO_2: H
48	vss	Input	Diaital GND terminal
49	TAPE F/R SPEED	output	Tape feed/return
50	TAPE SOL	output	Tape mechanism solenoid control output Attraction: L
51	TAPE MOTOR	output	Tape mechanism motor control output

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC201 RH-iX0171AWZZ:System Microcomputer (IX0171 AW) (2/2)

Pin No.	Terminal Name	Input/Output	Function
52	VDD	—	Positive power supply
53	CD O/C SW	Input	CD open-close switch input
54	DISC No. SW	Input	CD turntable position detection input
55	CD U/D SW	Input	CD mechanism UP/DOWN chucking detection input
56*	T1 CrO SW	Input	Tape 1 CrO_2 detection SW input
57*	SRS INH	Output	SRS (surround) position selection output
58*	SRS B	Output	SRS (surround) position selection output
59*	SRS A	Output	SRS (surround) position selection output
60*	SRS 3D	Output	SRS (surround) position selection output
61	SRS PASS	Output	SRS (surround) position selection output
62	SPAN 9K/10K	Input	Tuner span selector 9 kHz/10 kHz selection input
63	DOLBY	Input	DOLBY detection input, not applied in this machine
64	SRS	Input	SRS detection input, not applied in this machine
65	BALANCE	Input	BALANCE detection input, not applied in this machine
66	4SP	Input	4SP detection input, not applied in this machine
67	TAPE A-FP SW	Input	Tape A side miserase preventing SW input
68	TAPE B-FP SW	Input	Tape B side miserase preventing SW input
69	TAPE PB MUT	Output	Tape playback mute output
70	TAPE T1/T2	Output	Tape 1/2 selection
71	VLOAD	—	To be connected to GND
72	TAPE BIAS	Output	Tape bias circuit selection
73*	———	—	Not used
74*	———	—	Not used
75	TAPE BEET CUT	Output	Beat cancel signal control output
76*	TAPE HI SPEED	Output	Tape mechanism High-Low speed selection
77*	———	—	Not used
78*	———	—	Not used
79*	TAPE PB EQ	output	Tape circuit playback Eq selection
80	TAPE REC MUT	output	Tape circuit record muting output

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC701RH-iX0170AWZZ:System Microcomputer (IX0170AW) (1/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
1-5	P94/FIP6-P90/FIP2	G06-G02	**Output**	FL display tube grid drive
6,7	P81/FIP1,P80/FIP0	G01,G00	Output	FL display tube grid drive
8	**VDD**	**VDD**	—	Positive power supply
9	P27/SCK0	C²B CLK	Output	C²B serial clock output
10	P26/SO0/SB1	C²B DO	Output	C²B serial data output
11	P25/SI0/SB0	C²B DI	Input	C²B serial data input
12	P24/BUSY	C²B CE	Output	C²B serial CE output
13	P23/STB	SUB STB	Output	Serial strobe output for CD/TAPE microcomputer
14	P22/SCK1	SUB SCK	Output	Serial clock output for CD/TAPE microcomputer
15	P21/SO1	SUB SO	Output	Serial data output for CD/TAPE microcomputer
16	P20/SI1	SUB SI	Input	Serial strobe input for CD/TAPE microcomputer
17	RESET	RESET	Input	Reset input
18*	P74	SUB RES	Output	Reset output for CD/TAPE microcomputer
19	P73	TUN MUTE	Output	Tuner TUNMUT output
20	AVSS	AVSS	—	Analog power supply for A/D converter
21	P17/ANI7	TUN SD	Input	Tuner station detection input
22	P16/ANI6	TUN SM	Input	Tuner signal meter input
23	P15/ANI5	**KEY IN5**	Input	Key input 37-45
24	P14/ANI4	KEY IN4	Input	Key input 28-36
25	P13/ANI3	KEY IN3	Input	Kev input 19-27
26	P12/ANI2	KEY IN2	Input	Key input 10-18
27	P11/ANI1	KEY IN1	Input	Key input 1-9
28	P10/ANI0	ENF IN	Input	Tuner initial setting input
29	AVDD	AVDD	—	Analog positive power supply for A/D converter
30	AVREF	AVREF	—	Reference power supply for A/D converter
31	P04/XT1	VSS	Input	Sub-clock input To be connected to Vss
32*	XT2	N.C	—	Sub-clock output OPEN
33	VSS	VSS	—	GND power
34	X1	X1	Input	Main clock 4.194304 MHz
35	x2	x2	Output	Main clock 4.194304 MHz
36	P37	LED LCK	Output	LED IC serial clock output BU2092 LCK
37	P36/BUZ	LED DATA	Output	LED IC serial data output BU2092 DATA
38	P35/PCL	LED CLK	output	LED IC serial clock output BU2092CLK
39*	P34/TI2	RDS ID	Input	RDS RDS station detection input
40*	P33/TI1	RDS SYNC	Input	RDS Data sync detection input
41*	P32/TO2	**RDS SYR**	output	RDS RAM reset output LC72720 SYR
42	P31/TO1	SYS MUTE	Output	System mute output
43	P30/TO0	POWER	Output	POWER output
44*	P03/INTP3/CI0		output	No use
45*	P02/INTP2		Output	No use
46	P01/INTP1	SYS STOP	Input	Power failure input
47	P00/INTP0/TI0	REM IN	Input	Remote Control Input
48	IC	vss	—	Connect with GND
49*	P72		Output	No use
50*	P71		Output	No use
51*	P70		Output	No use
52	VDD	VDD	—	Positive power supply
53*	P127/FIP33		—	No use
54-60	P126/FIP32-P120/FIP26	S21-S15	Output	FL display tube seament drive
61-68	P117/FIP25-P110/FIP18	S14-S07	output	FL display tube seament drive
69,70	P107/FIP17,P106/FIP16	S06,S05	Output	FL display tube segment drive

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC701RH-iX0170AWZZ:System Microcomputer (IX01 70AW) (2/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
71	VLOAD	VLOAD	—	Negative power supply for FL drive To be connected to -30V
72-76	P105/FIP15-P101/FIP11	S04-S00	output	FL display tube segment drive
77	P100/FIP10	G10	output	FL display tube grid drive
78-80	P97/FIP9-P95/FIP7	G09-G07	output	FL display tube grid drive

IC601VHiLC75396N-1:Audio Processor (LC75396N)

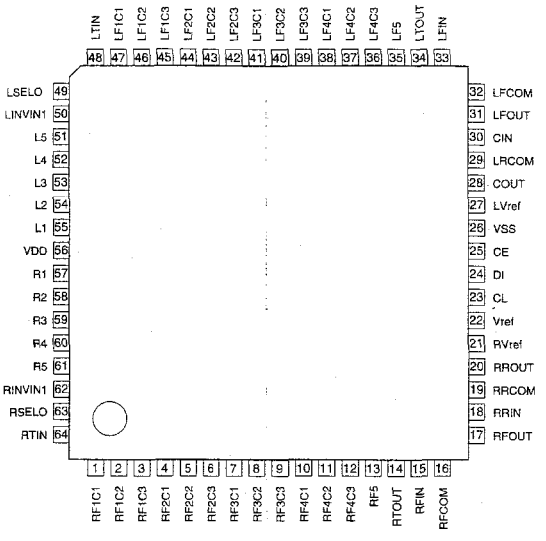


Figure 51-1 BLOCK DIAGRAM OF IC

IC501VHiLV1035M/-1: Dolby Pro Logic Decorder (LV1035M)

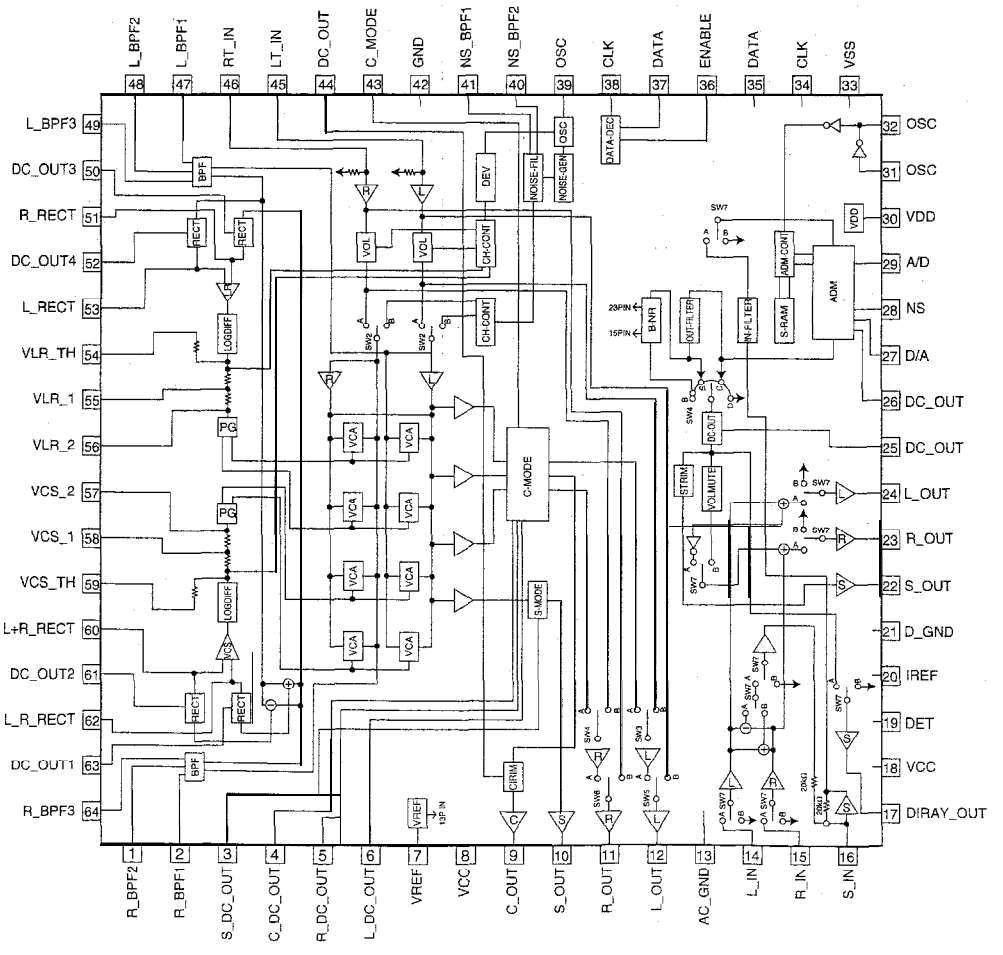


Figure 51-2 BLOCK DIAGRAM OF IC

IC601 VHiLC75396N-1:Audio Processor (LC75396N)

Pin No.	Terminal Name	Function
1-3*	RF1C1-RF1C3	Terminal to connect capacitor of filter configuration for equalizer F1 band Connect the capacitor between LF1C1(RF1C1) and LF1C2(RF1C2) between LF1C2 (RF1C2) and LF1C3(RF1C3).
4-6	RF2C1-RF2C3	Terminal to connect capacitor of filter configuration for equalizer F2 band Connect the capacitor between LF2C1(RF2C1) and LF2C2(RF2C2) between LF2C2 (RF2C2) and LF2C3(RF2C3).
7-9	RF3C1-RF3C3	Terminal to connect capacitor of filter configuration for equalizer F3 band Connect the capacitor between LF3C1(RF3C1) and LF3C2(RF3C2) between LF3C2 (RF3C2) and LF3C3(RF3C3).
10-12	RF4C1-RF4C3	Terminal to connect capacitor of filter configuration for equalizer F4 band Connect the capacitor between LF4C1(RF4C1) and LF4C2(RF4C2) between LF4C2 (RF4C2) and LF4C3(RF4C3).
13	RF5	Terminal to connect capacitor of filter configuration for equalizer F5 band Terminal to connect the externally provided capacitor
14	RTOUT	Equalizer output terminal
15	RFIN	Input terminal of Rch front side 4dB step control
16	RFCOM	Common terminal of Rch front side 1dB step control
17	RFOUT	Output terminal of Rch front side control
18	RRIN	Input terminal of Rch rear side 4dB step control
19	RRCOM	Common terminal of Rch rear side 1dB step control
20	RROUT	Output terminal of Rch rear side control
21	RVREF	Internal analog ground terminal
22	VREF	Connect the capacitor of about several 10 uF between Vref and AVSS (VSS) so as to prevent power supply ripple in the VDD/2 voltage generating section.
23	CL	Terminal to input serial data and clock for control
24	DI	Terminal to input serial data and clock for control
25	CE	Chip enable terminal. Data is written in the internal latch with a timing of changing H to L, and the specific analog switch is actuated. Data transfer is enabled on the H level.
26	VSS	GND
27	LVREF	Internal analog ground terminal
28	COUT	Output terminal of Lch rear side control
29	LRCOM	Common terminal of Lch rear side 1dB step control
30	CIN	Input terminal of Lch rear side 4dB step control
31	LFOUT	Output terminal of Lch front side control
32	LFCOM	Common terminal of Lch front side 1dB step control
33	LFIN	Input terminal of Lch front side 4dB step control
34	LTOUT	Equalizer output terminal
35	LF5	Terminal to connect capacitor of filter configuration for equalizer F5 band Terminal to connect the externally provided capacitor
36-38	LF4C3-LF4C1	Terminal to connect capacitor of filter configuration for equalizer F4 band Connect the capacitor between LF4C1(RF4C1) and LF4C2(RF4C2) between LF4C2 (RF4C2) and LF4C3(RF4C3).
39-41	LF3C3-LF3C1	Terminal to connect capacitor of filter configuration for equalizer F3 band Connect the capacitor between LF3C1(RF3C1) and LF3C2(RF3C2) between LF3C2 (RF3C2) and LF3C3(RF3C3).
42-44	LF2C3-LF2C1	Terminal to connect capacitor of filter configuration for equalizer F2 band Connect the capacitor between LF2C1(RF2C1) and LF2C2(RF2C2) between LF2C2 (RF2C2) and LF2C3(RF2C3).
45-47*	LF1C3-LF1C1	Terminal to connect capacitor of filter configuration for equalizer F1 band Connect the capacitor between LF1C1(RF1C1) and LF1C2(RF1C2) between LF1C2 (RF1C2) and LF1C3(RF1C3).
48	LTIN	Equalizer input terminal
49	LSELO	Input selector output terminal
50	LINVIN1	Operational amplifier reverse input terminal for input gain setting
51-55	L5-L1	Input signal terminal
56	VDD	Power terminal
57-61	R1-R5	Input signal terminal
62	RINVIN1	Operational amplifier reverse input terminal for input gain setting
63	RSELO	Input selector output terminal
64	RTIN	Equalizer input terminal

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC3 VHiM56748FP-1: Focus/Tracking/Spin/Slide Driver (M56748FP)

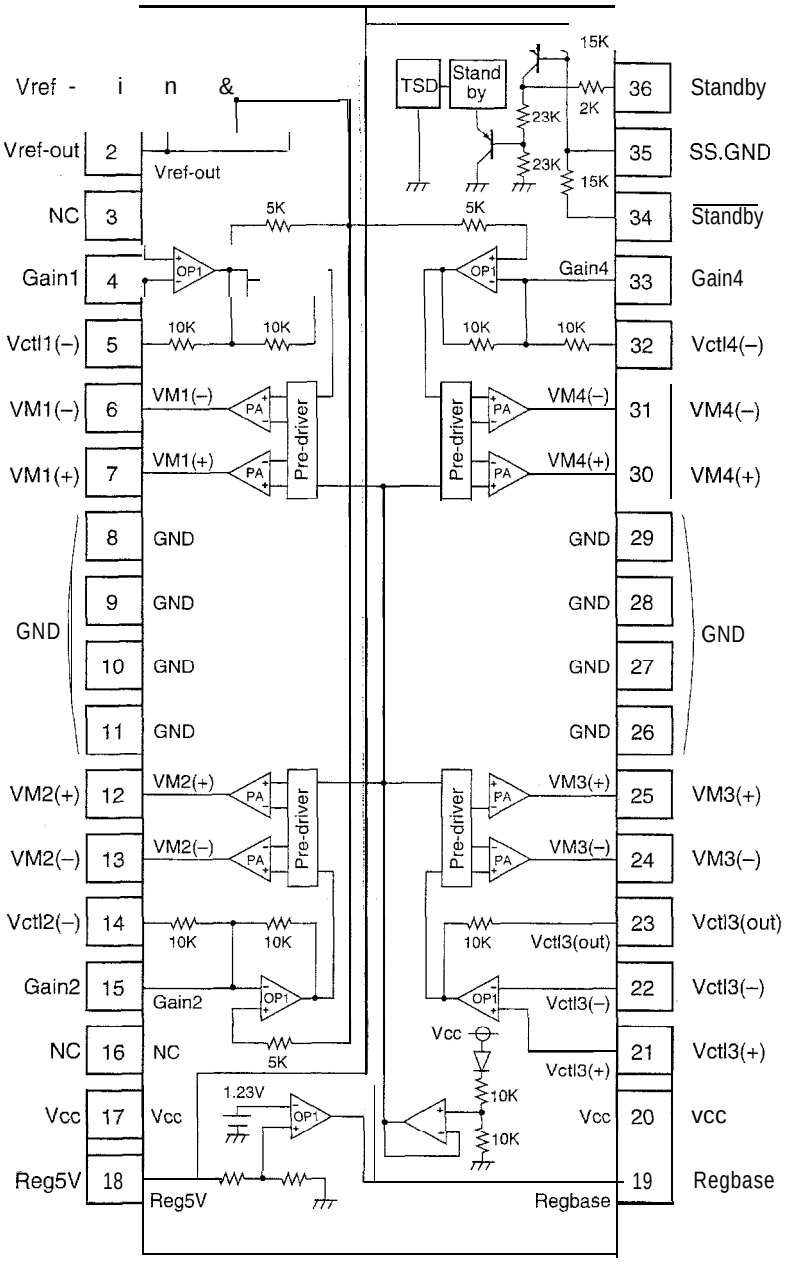


Figure 54-1 BLOCK DIAGRAM OF IC

FL701 : VVKBJ549GK/-1 FL Display

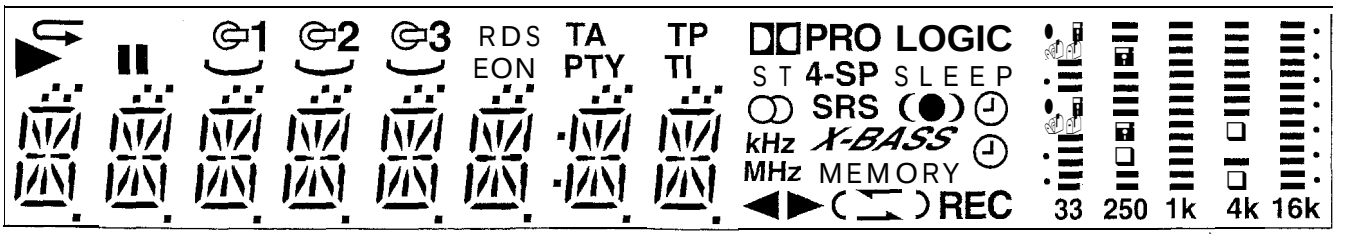


Figure 54-2 FL DISPLAY

MEMO

SHARP PARTS GUIDE

MODEL **CD-C471W**

CD-C471 W mini component system consisting of CD-C471W mini component system, front (CP-C471), senter (GBOXS0006AWM6)and surround(GBOXS0007AWM6) Speaker System.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. No.
3. PART NO.
4. DESCRIPTION

★ MARK: SPARE PARTS-DELIVERY SECTION

For U.S.A. only

Contact your nearest SHARP Parts Distributor to order.

For location of SHARP Parts Distributor,
Please call Toll-Free;
1-800-BE-SHARP

Explanation of capacitors/resistors parts codes

Capacitors

VCC ..... Ceramic type
VCK..... Ceramic type
VCT..... Semiconductor type
VC..MF..... Cylindrical type (without lead wire)
VC..MN..... Cylindrical type (without lead wire)
VC..TV..... Square type (without lead wire)
VC..TQ..... Square type (without lead wire)
VC..CY..... Square type (without lead wire)
VC..CZ..... Square type (without lead wire)
VC.....J The 13th character represents capacity difference.
("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,
"C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)

If there are no indications for the electrolytic capacitors, error is ±20%.

Resistors

VRD ..... Carbon-film type
VRS ..... Carbon-film type
VRN ..... Metal-film type
VR..MF..... Cylindrical type (without lead wire)
VR..MN..... Cylindrical type (without lead wire)
VR..TV..... Square type (without lead wire)
VR..TQ..... Square type (without lead wire)
VR..CY..... Square type (without lead wire)
VR..CZ..... Square type (without lead wire)
VR.....J. The 13th character represents error.
("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.

NOTE:
Parts marked with "⚠" are important for maintaining the safety of the set.
Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

CD-C471W

NO.	PART CODE	★ PRICE RANK	DESCRIPTION
INTEGRATED CIRCUITS			
IC1	VHILA9241 M / - I	J AS	Servo Amp.,LA9241M
IC2	VHILC78622K-1	J AY	Servo/Signal Control,LC78622K
IC3	VHIM56748FP-1	J AR	Focus/Tracking/Spin/Slide Driver,M56748FP
IC81	VHITA7291S/-1	J AH	Loading Motor Driver,TA7291S
IC99	VHPGP1 F32T/-1	J AP	Optical Fiber Data LinkGP1F32T
IC101	VHIAN7345K/-1	J AM	Playback and Record/Playback Amp.,AN7345K
IC201	RH-IX0171AWZZ	J AV	System Microcomputer, IX0171AW
IC302	VHILC72131/-1	J AP	PLL (Tuner) LC72131
IC303	VHILA1832//-1	J AR	FM IF Det./FM Mpx./AM IF, LA1832
IC451	VHINJM4558L-1	J AC	Sub Woofer Amp.,NJM4558L
IC501	VHILV1035M/-1	J BC	Dolby Pro Logic Decorder, LV1035M
IC561~563	VHINJM4558L-1	J AC	Ope Amp.,NJM4558L
IC601	VHILC75396N-1	J AX	Audio Processor,LC75396N
IC651	VHINJM4558L-1	J AC	Ope Amp.,NJM4558L
IC681	VHINJM4560L-1	J AC	Headphone Amp.,NJM4560L
IC701	RH-IX0170AWZZ	J AW	System Microcomputer, IX0170AW
IC702	VHIBU2092F/-1	J A M	Input/Output Expander,BU2092F
IC901	VHISTK40704-1	J AZ	Power Amp.,STK40704
IC951	VHILA4450//-1	J AH	Power Amp.,LA4450
TRANSISTORS			
Q1	VSKTA1266GR-1	J AB	Silicon,PNP,KTA1266 GR
Q51	VSKRC107M//-1	J AC	Digital,NPN,KRC107 M
Q52	VSKTC3203Y/-1	J AC	Silicon,NPN,KTC3203 Y
Q91	VSKTA1271Y/-1	J AC	Silicon,PNP,KTA1271 Y
Q93	VSKRC102M//-1	J AC	Digital,NPN,KRC102 M
Q103~106	VS2SC1845F/-1	J AC	Silicon,NPN,2SC1845 F
Q107,108	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q109	VSKTA1266GR-1	J AB	Silicon,PNP,KTA1266 GR
Q110,111	VSKRC104M//-1	J AC	Digital,NPN,KRC104 M
Q117,118	VS2SC2878A/-1	J AE	Silicon,NPN,2SC2878 A
Q121,122	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q124	VSKTA1266GR-1	J AB	Silicon,PNP,KTA1266 GR
Q126	VSKRC104M//-1	J AC	Digital,NPN,KRC104 M
Q128	VS2SC2236-Y-1	J AB	Silicon,NPN,2SC2236 Y
Q201	VSKRC104M//-1	J AC	Digital,NPN,KRC104 M
Q353,354	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q360	VSKTA1266GR-1	J AB	Silicon,PNP,KTA1266 GR
Q361	VSKRC107M//-1	J AC	Digital,NPN,KRC107 M
Q371	VSKTA1266GR-1	J AB	Silicon,PNP,KTA1266 GR
Q601~604	VSKTC3199GR-1	J A B	Silicon,NPN,KTC3199 GR
Q609	VSKTC3199GR-1	J A B	Silicon,NPN,KTC3199 GR
Q671~676	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q701	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q704	VSKRC102M//-1	J AC	Digital,NPN,KRC102 M
Q705,706	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q710	VS2SD468-C/-1	J AD	Silicon,NPN,2SD468 C
Q801	VSKTA1266GR-1	J AB	Silicon,PNP,KTA1266 GR
Q820	VS2SD2012//-1	J AD	Silicon,NPN,2SD2012
Q822	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q823,824	VS2SD2012//-1	J AD	Silicon,NPN,2SD2012
Q825,826	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q827	VSKRA107M//-1	J A E	Digital,PNP,KRA107 M
Q901	VSKTA1268GR-1	J A C	Silicon,PNP,KTA1268 GR
Q902,903	VSKRC107M//-1	J A C	Digital,NPN,KRC107 M
Q905	VSKTC3199GR-1	J A B	Silicon,NPN,KTC3199 GR
QM02	VSKTA1273Y/-1	J A E	Silicon,PNP,KTA1273 Y
QM03	VSKTA1271Y/-1	J A C	Silicon,PNP,KTA1271 Y
QM05	VSKTA1266GR-1	J AB	Silicon,PNP,KTA1266 GR
DIODES			
D1	VHD1SS133//-1	J A A	Silicon,1SS133
D2~4	VHDRL104A//-1	J A B	Silicon,RL104A
D81,82	VHD1SS133//-1	J A A	Silicon,1SS133
D91	VHD1SS133//-1	J A A	Silicon,1SS133
D201~210	VHD1SS133//-1	J A A	Silicon,1SS133
D301~304	VHD1SS133//-1	J A A	Silicon,1SS133
D351~353	VHD1SS133//-1	J A A	Silicon,1SS133
D515,516	VHDRL104A//-1	J A B	Silicon,RL104A
D540,541	VHD1SS133//-1	J A A	Silicon,1SS133
D551~558	VHD1SS133//-1	J A A	Silicon,1SS133
D601	VHD1SS133//-1	J A A	Silicon,1SS133
D604~611	VHD1SS133//-1	A A	Silicon,1SS133
D705~709	VHD1SS133//-1	A A	Silicon,1SS133
⚠ D801,802	VHDTS6B04GM-1	A P	Silicon,TS6B04GM-1
D803~809	VHDRL104A//-1	AB	Silicon,RL104A
D820	VHD1SS133//-1	AA	Silicon,1SS133
D822,823	VHDRL104A//-1	AB	Silicon,RL104A
D824	VHD1SS133//-1	AA	Silicon,1SS133
D827	VHD1SS133//-1	A A	Silicon,1SS133
D902,903	VHD1SS133//-1	A A	Silicon,1SS133
DM02,03	VHD1SS133//-1	AA	Silicon,1SS133
LED701 -711	VHP333GTH2/-1	A D	LED,Green,333GTH2
LED714~719	VHP333GTH2/-1	A D	LED,Green,333GTH2
VD301	VHCKV1236Z23F	AS	Variable Capacitance, KV1236Z23F
ZD61	VHEMTZJ5R6B-1	AD	Zener,5.6V,MTZJ5.6B
ZD201	VHEMTZJ130C-1	AB	Zener,13V,MTZJ13C
ZD351	VHEMTZJ5R1B-1	AC	Zener,5.1V,MTZJ5.1B
ZD352	VHEMTZJ3R9B-1	AC	Zener,3.9V,MTZJ3.9B
ZD551	VHEMTZJ6R2C-1	AC	Zener,6.2V,MTZJ6.2C
ZD701	VHEMTZJ3R9B-1	AC	Zener,3.9V,MTZJ3.9B
ZD710	VHEMTZJ6R2C-1	AC	Zener,6.2V,MTZJ6.2C
ZD801	VHEMTZJ6R2A-1	A A	Zener,6.2V,MTZJ6.2A
ZD802	VHEMTZJ300B-1	AB	Zener,MTZJ300B
ZD820	VHEMTZJ8R2C-1	AB	Zener,8.2V,MTZJ8.2C
ZD822	VHEMTZJ130C-1	A B	Zener,13V,MTZJ13C
FILTERS			
CF302	RFILF0124AFZZ	J AD	'FM IF
CF351	RFILF0003AWZZ	J AK	FM IF
CF352	RFILA0009AWZZ	J A E	A M I F
TRANSFORMERS			
T302	RCILA1064AFZZ	J A D	MW Antenna
T306	RCILB1074AFZZ	J A C	OSC,MW
T351	RCILI0011AWZZ	J AD	AM IF
⚠ T801	RTRNP0199AWZZ	J BC	Power
COILS			
L61	VP-XHR82K0000	J AC	0.82 µH
L99	VP-DH2R2K0000	J AB	2.2 mmH,Peaking
L101,102	VP-MKI 82K0000	J A C	1.8 mH,Choke
L103	VP-MK102K0000	J A B	1 mH,Choke
L104	VP-MK331 KOOOO	J A B	330 µH,Choke
L201	VP-DH101 KOOOO	J A B	100 µH,Choke
L342	VP-DH2R2K0000	J AB	2.2 mmH,Peaking
L351,352	VP-DH101K0000	J A B	100 µH,Choke
L353	VP-DH102K0000	J A B	1 mH,Choke
L701	VP-DH101 KOOOO	J AB	1 0 0 µH,Choke
VARIABLE RESISTORS			
VR351	RVR-M0026AFZZ	J A C	10 kohm (B),Semi-VR [FM MUTE LEVEL]
VRM1	RVR-M0556AFZZ	J A B	3.3 kohms (B),Semi-VR [TAPE]
VIBRATORS			
x351	92LCRSTL1425A	J AF	Crystal,456 kHz
X352	RCRSP0002AWZZ	J A H	Crystal,4.5 M H z
X501	RCRM-0173AFZZ	J AE	Ceramic,8 MHz
XL1	RCRSP0005AWZZ	J A F	Crystal,16.934 M H z
XL201	RCRM-0147AFZZ	J A D	Ceramic,4.19 M H z
XL701	RCRSP0003AWZZ	J A H	Crystal,4.19 M H z
CAPACITORS			
C1	VCEAZA1CW476M	J AB	47 µF,16V,Electrolytic
C2	VCTYMN1CY103N	J A A	0.01 µF,16V
C3	VCEAZA1HW105M	J AB	1 µF,50V,Electrolytic
C4	VCEAZA1HW104M	J AB	0.1 µF,50V,Electrolytic
C5,6	VCTYPA1CX333K	J A A	0.033 µF,16V
C7	VCEAZA1HW104M	J A B	0.1 µF,50V,Electrolytic
C8	VCTYPA1CX683K	J A A	0.068 µF,16V
C9	VCTYPA1CX473K	J A A	0.047 µF,16V
C10	VCKYMN1HB181K	J A A	180 pF,50V
C11,12	VCTYPA1CX104K	J A B	0.1 µF,16V
C13	VCKYMN1HB331K	J A A	330 pF,50V
C14,15	VCTYMN1CY103N	J A A	0.01 µF,16V
C16	VCTYMN1CX472K	J A A	0.0047 µF,16V

NO.	PART CODE ★	PRICE RANK	DESCRIPTION
C17	VCKYMN1HB102K J	AA	0.001 µF,50V
C18	VCEAZA1 HW474M J	AB	0.47 µF,50V,Electrolytic
C19	VCEAZAI HW105M J	AB	1 µF,50V,Electrolytic
C20	VCEAZAI CW476M J	AB	47 µF,16V,Electrolytic
C21	VCTYMN1CX332K J	AA	0.0033 µF,16V
c22	VCCSPA1HL221J J	AA	220 pF,50V
C23	VCTYMNI CX272K J	AA	0.0027 µF,16V
C24	VCCSMNI HL2R2C J	AB	2.2 pF,50V
C25	VCCSMNI HL270J J	AA	27 pF,50V
C26	VCTYPAI CX333K J	AA	0.033 µF,16V
C27	VCKYMN1HB102K J	AA	0.001 µF,50V
C28	VCTYPA1CX104K J	AB	0.1 µF,16V
c29	VCEAZA1 HW475M J	AB	4.7 µF,50V,Electrolytic
C30	VCEAZAI HW104M J	AB	0.1 µF,50V,Electrolytic
C31	VCEAZA0JW227M J	AC	220 µF,6.3V,Electrolytic
C32	VCTYMN1CY103N J	AA	0.01 µF,16V
c33	VCEAZAI HW474M J	AB	0.47 µF,50V,Electrolytic
c34	VCEAZA1 HW334M J	AB	0.33 µF,50V,Electrolytic
c35	VCEAZAI HW105M J	AB	1 µF,50V,Electrolytic
C36	VCEAZA1CW107M J	AC	100 µF,16V,Electrolytic
c37	VCTYMN1 EF223Z J	AA	0.022 µF,25V
C38	VCTYMN1CY103N J	AA	0.01 µF,16V
C39,40	VCKZPA1HF473Z J	AA	0.047 µF,50V
C41	VCCSPA1HL120J J	AA	12 pF,50V
C42	VCCSPA1HL150J J	AA	15 pF,50V
c43	VCEAZA0JW337M J	A C	330 µF,6.3V,Electrolytic
C44~49	VCKYMN1HB101K J	AA	100 pF,50V
C50	VCTYMN1 EF223Z J	AA	0.022 µF,25V
C51,52	VCEAZA1 CW107M J	AC	100 µF,16V,Electrolytic
c53	VCTYMN1 EF223Z J	AA	0.022 µF,25V
C54	VCKYBT1HB102K J	AA	0.001 µF,50V
C56	VCTYMN1EF223Z J	AA	0.022 µF,25V
c57	VCKYBT1HB102K J	AA	0.001 µF,50V
C71,72	VCEAZAI HW106M J	AB	10 µF,50V,Electrolytic
C73,74	VCKYMN1HB221K J	AA	220 pF,50V
C75	VCKYBT1 HB102K J	AA	0.001 µF,50V
C81,82	VCEAZAI CW476M J	AB	47 µF,16V,Electrolytic
ca3	VCTYMN1 EF223Z J	AA	0.022 µF,25V
C84,85	VCKYBT1HB102K J	AA	0.001 µF,50V
C98	VCKZPA1HF223Z J	AA	0.022 µF,50V
C99	VCEAZA1 AW107M J	AB	100 µF,10V,Electrolytic
C101,102	VCKYMN1HB681K J	AA	680 pF,50V
C105,106	VCKYMN1HB331K J	AA	330 pF,50V
C107,108	VCKYMN1HB681K J	AA	680 pF,50V
C109	VCKZPA1 HF223Z J	AA	0.022 µF,50V
C110	VCEAZA1 EW476M J	AB	47 µF,25V,Electrolytic
C111~114	VCKYMN1HB331K J	AA	330 pF,50V
C115,116	VCEAZA1CW476M J	AB	47 µF,16V,Electrolytic
C117,118	VCTYPA1 EX333K J	AA	0.033 µF,25V
C119,120	VCKYMN1HB561K J	AA	560 pF,50V
C121,122	VCEAZA1 HW105M J	AB	1 µF,50V,Electrolytic
CI27	VCTYMNI EF223Z J	AA	0.022 µF,25V
CI28	VCEAZA1HW335M J	AB	3.3 µF,50V,Electrolytic
C129,130	VCKYMN1HB471K J	AA	470 pF,50V
C133,134	VCEAZAI EW226M J	AB	22 µF,25V,Electrolytic
C135,136	VCTYPA1 CX393K J	AB	0.039 µF,16V
C139,140	VCTYMN1CX332K J	A A	0.0033 µF,16V
C141,142	VCEAZAI HW105M J	A B	1 µF,50V,Electrolytic
C143,144	VCTYMNI EF223Z J	AA	0.022 µF,25V
C145	VCEAZAI EW226M J	AB	22 µF,25V,Electrolytic
CI46	VCEAZA1AW227M J	AC	220 µF,10V,Electrolytic
C147	VCKZPA1 HF223Z J	AA	0.022 µF,50V
C150	VCQPKA2AA822J J	AA	0.0082 µF,100V,Polypropylene
C151	VCQYKA1 HM273K J	AB	0.027 µF,50V,Mylar
CI52	VCEAZA1CW476M J	AB	47 µF,16V,Electrolytic
C155	VCKYMN1HB101K J	AA	100 pF,50V
CI62	VCQYKA1 HM473K J	AB	0.047 µF,50V,Mylar
CI63	VCEAZAI CW476M J	AB	47 µF,16V,Electrolytic
C201	VCEAZA1AW227M J	AC	220 µF,10V,Electrolytic
C202	VCKZPA1 HF223Z J	AA	0.022 µF,50V
C203~205	VCKYMN1HB151K J	AA	150 pF,50V
C206	VCKYMN1HB102K J	AA	0.001 µF,50V
C207	VCKYMN1HB151K J	AA	150 pF,50V
C208	VCKZPA1 HF223Z J	AA	0.022 µF,50V
C209	VCEAZAI EW476M J	AB	47 µF,25V,Electrolytic
C210	VCEAZA1 EW226M J	AB	22 µF,25V,Electrolytic
C250~252	VCCSPA1 HL221J J	AA	220 pF,50V
C301	VCKYMN1HB102K J	AA	0.001 µF,50V
C321	VCEAZA1CW107M J	AC	100 µF,16V,Electrolytic
C323	VCTYMN1 EF223Z J	AA	0.022 µF,25V
C330	VCCUMN1HJ100J J	AA	10 pF (UJ),50V
c331	VCKYPA1HF473Z J	AB	0.047 µF,50V

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C332	VCTYMN1 EF223Z J	AA	0.022 µF,25V
c334	VCCUMN1HJ180J J	AA	18 pF (UJ),50V
c335	VCCCMN1HH180J J	AA	18 pF (CH),50V
C336	VCKYMN1HB471K J	AA	470 pF,50V
c337	VCTYMN1EF223Z J	AA	0.022 µF,25V
C338	VCKYMN1HB102K J	AA	0.001 µF,50V
C341,342	VCTYMN1EF223Z J	AA	0.022 µF,25V
c343	VCCSMN1 HL330J J	AA	33 pF,50V
C345~347	VCTYMN1EF223Z J	AA	0.022 µF,25V
C350,351	VCTYMN1EF223Z J	AA	0.022 µF,25V
C352	VCEAZA1CW106M J	AC	10 µF,16V,Electrolytic
C353,354	VCTYMNI EF223Z J	AA	0.022 µF,25V
C355	VCCSMN1 HL220J J	AA	22 pF,50V
C356	VCKYMN1HB102K J	AA	0.001 µF,50V
C357	VCEAZAI HW225M J	AB	2.2 µF,50V,Electrolytic
C358	VCEAZA1HW105M J	AB	1 µF,50V,Electrolytic
C361	VCTYMN1 EF223Z J	AA	0.022 µF,25V
C362	VCEAZAI HW335M J	A0	3.3 µF,50V,Electrolytic
C363	VCTYMN1EF223Z J	AA	0.022 µF,25V
C364	VCEAZA1CW106M J	AC	10 µF,16V,Electrolytic
C365	VCTYPA1 CX223K J	AA	0.022 µF,16V
C366	VCKYMN1HB102K J	AA	0.001 µF,50V
C367,368	VCEAZA1HW105M J	AB	1 µF,50V,Electrolytic
C370~372	VCEAZAI HW105M J	AB	1 µF,50V,Electrolytic
C373,374	VCTYPA1CX273K J	AA	0.027 µF,16V
c375	VCEAZAI HW335M J	AB	3.3 µF,50V,Electrolytic
C380	VCEAZA1CW106M J	AC	10 µF,16V,Electrolytic
C381	VCCCMN1HH120J J	AA	12 pF (CH),50V
C382	VCCCMN1HH150J J	AA	15 pF (CH),50V
C384	VCKYMN1HB102K J	AA	0.001 µF,50V
C385	VCTYMN1CY103K J	AA	0.01 µF,16V
C386	VCKYMN1HB331K J	AA	330 pF,50V
C387	VCTYMNI EF223Z J	AA	0.022 µF,25V
C391	VCEAZA1CW476M J	AB	47 µF,16V,Electrolytic
c392	VCKYMN1HB102K J	AA	0.001 µF,50V
c393	VCEAZA1HW105M J	AB	1 µF,50V,Electrolytic
c394	VCEAZA1 CW476M J	AB	47 µF,16V,Electrolytic
C396	VCEAZAI AW107M J	AB	100 µF,10V,Electrolytic
c397	VCTYMN1EF223Z J	AA	0.022 µF,25V
C398	VCEAZA1AW107M J	AB	100 µF,10V,Electrolytic
c399	VCTYMN1 EF223Z J	AA	0.022 µF,25V
C451	VCQYKA1HM473K J	AB	0.047 µF,50V,Mylar
C452	VCCSPA1HL101J J	AA	100 pF,50V
c453	VCEAZAI EW476M J	AB	47 µF,25V,Electrolytic
c454	VCQYKA1HM154K J	AB	0.15 µF,50V,Mylar
C455	VCEAZAI EW476M J	AB	47 µF,25V,Electrolytic
C456	VCQYKA1 HM154K J	AB	0.15 µF,50V,Mylar
C458	VCQYKA1 HM823K J	AC	0.082 µF,50V,Mylar
c459	VCEAZAI CW106M J	AC	10 µF,16V,Electrolytic
C460	VCEAZAI EW476M J	AB	47 µF,25V,Electrolytic
C461	VCTYBT1 EF223Z J	AA	0.022 µF,25V
C462	VCEAZA1 HW225M J	AB	2.2 µF,50V,Electrolytic
C469	VCCSPA1 HL331 J J	AA	330 pF,50V
C501	VCQYKA1HM104K J	AB	0.1 µF,50V,Mylar
C502,503	VCEAZAI HW105M J	AB	1 µF,50V,Electrolytic
C504	VCEAZAI CW476M J	AB	47 µF, 1 6V,Electrolytic
C505	VCEAZAI HW474M J	AB	0.47 µF,50V,Electrolytic
C506	VCKZPA1 HF223Z J	AA	0.022 µF,50V
C507	VCKZPA1 HF473Z J	AA	0.047 µF,50V
C508	VCCSPA1HL681J J	AA	680 pF,50V
C509	VCQYKA1HM104K J	AB	0.1 µF,50V,Mylar
C510.511	VCEAZAI HW474M J	AB	0.47 µF,50V,Electrolytic
C512,513	VCEAZAI HW475M J	AB	4.7 µF,50V,Electrolytic
C514	VCQYKA1 HM823K J	AC	0.082 µF,50V,Mylar
C515	VCQYKA1 HM332K J	AA	0.0033 µF,50V,Mylar
C516	VCEAZAI HW154M J	AB	0.15 µF,50V,Electrolytic
C517	VCQYKA1HM823K J	AC	0.082 µF,50V,Mylar
C518	VCEAZAI HW335M J	AB	3.3 µF,50V,Electrolytic
C519	VCEAZA1 HW474M J	AB	0.47 µF,50V,Electrolytic
C520	VCEAZAI HW154M J	AB	0.15 µF,50V,Electrolytic
C521	VCEAZAI HW334M J	AB	0.33 µF,50V,Electrolytic
C522	VCEAZAI HW154M J	AB	0.15 µF,50V,Electrolytic
C523,524	VCEAZA1HW106M J	AB	10 µF,50V,Electrolytic
C525	VCEAZAI HW335M J	AB	3.3 µF,50V,Electrolytic
C526	VCEAZA1 HW154M J	AB	0.15 µF,50V,Electrolytic
C527	VCEAZAI HW106M J	AB	10 µF,50V,Electrolytic
C528~530	VCEAZAI HW475M J	AB	4.7 µF,50V,Electrolytic
c531	VCEAZAI HW225M J	AB	2.2 µF,50V,Electrolytic
C532	VCEAZAI CW227M J	AC	220 µF,16V,Electrolytic
C533	VCEAZAI HW474M J	AB	0.47 µF,50V,Electrolytic
c534	VCQYKA1HM104K J	AB	0.1 µF,50V,Mylar
C535	RC-EZY106AF1H J	AB	10 µF,50V,Electrolytic

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C536	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
c537	RC-EZY106AF1H	J	AB	10 µF,50V,Electrolytic
C538	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
c539	VCEAZAI CW227M	J	AC	220 µF,16V,Electrolytic
C540	VCEAZAI HW106M	J	AB	10 µF,50V,Electrolytic
C541,542	VCEAZA1CW227M	J	AC	220 µF,16V,Electrolytic
c543	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
c544	VCEAZAI CW227M	J	AC	220 µF,16V,Electrolytic
c545	VCCSPA1HL221 J	J	AA	220 pF,50V
C547,548	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C549,550	VCCSPAIHL221 J	J	AA	220 pF,50V
c551	VCKYMN1HB271K	J	AA	270 pF,50V
C552	VCKYMN1HB681K	J	AA	680 pF,50V
c553	VCTYMN1CX272K	J	AA	0.0027 µF,16V
c554	VCTYMN1CX822K	J	AA	0.0082 µF,16V
C555,556	VCTYMN1CX682K	J	AA	0.0068 µF,16V
c557	VCKYMN1HB271K	J	AA	270 pF,50V
C558	VCKYMN1HB681K	J	AA	680 pF,50V
c559	VCTYMN1CX272K	J	AA	0.0027 µF,16V
C560	VCTYMN1CX822K	J	AA	0.0082 µF,16V
C561	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C562	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C563	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C564~568	VCEAZAI HW225M	J	AB	2.2 µF,50V,Electrolytic
C569	VCTYMN 1EF223Z	J	AA	0.022 µF,25V
C570	VCKYMN1HB102K	J	AA	0.001 µF,50V
C601~610	VCFYHA1HA224J	J	AC	0.22 µF,50V,Thin Film
C611,612	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
C613,614	VCKYMN1HB101K	J	AA	100 pF,50V
C615~618	VCEAZAI HW105M	J	AB	1 µF,50V,Electrolytic
C619	VCEAZAI HW154M	J	AB	0.15 µF,50V,Electrolytic
C620	VCEAZAI HW 154M	J	AB	0.15 µF,50V,Electrolytic
C621	VCEAZAI HW224M	J	AB	0.22 µF,50V,Electrolytic
C622	VCEAZAI HW224M	J	AB	0.22 µF,50V,Electrolytic
C623,624	VCEAZA1HW224M	J	AB	0.22 µF,50V,Electrolytic
C625,626	VCEAZAI HW104M	J	AB	0.1 µF,50V,Electrolytic
C627,628	VCEAZAI HW224M	J	AB	0.22 µF,50V,Electrolytic
C629,630	VCQYKA1HM273K	J	AB	0.027 µF,50V,Mylar
C631,632	VCQYKA1HM153K	J	AB	0.015 µF,50V,Mylar
C633,634	VCQYKA1HM222K	J	AA	0.0022 µF,50V,Mylar
C635,636	VCQYKA1HM472K	J	AB	0.0047 µF,50V,Mylar
C637,638	VCEAZAI HW105M	J	AB	1 µF,50V,Electrolytic
C639,640	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C641,642	VCEAZAI HW225M	J	AB	2.2 µF,50V,Electrolytic
C643,644	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C645,646	VCEAZAI HW106M	J	AB	10 µF,50V,Electrolytic
C647~649	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
C651,652	VCQYKAI HM104K	J	AB	0.1 µF,50V,Mylar
C653	VCQYKA1HM154K	J	AB	0.15 µF,50V,Mylar
C654	VCQYKA1HM154K	J	AB	0.15 µF,50V,Mylar
C655,656	VCKYMN1HB331K	J	AA	330 pF,50V
C657,658	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C659,660	VCEAZAI HW225M	J	AB	2.2 µF,50V,Electrolytic
C661~664	VCKYMN1HB102K	J	AA	0.001 µF,50V
C665	VCEAZAI HW226M	J	AB	22 µF,50V,Electrolytic
C666,667	VCEAZAI HW225M	J	AB	2.2 µF,50V.Electrolytic
C668	VCEAZAI HW226M	J	AB	22 µF,50V,Electrolytic
C669	VCEAZAI EW226M	J	AB	22 µF,25V,Electrolytic
C670~673	VCKYMN1HB391K	J	AA	390 pF,50V
C674	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C676	VCEAZAI CW337M	J		330 µF,16V,Electrolytic
C677	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C678,679	VCKYMN1HB102K	J	AA	0.001 µF,50V
C681,682	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C683,684	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
C685,686	VCKYMN1HB221 K	J	AA	220 pF,50V
C687	VCEAZAI EW476M	J	AB	47 µF,25V,Electrolytic
C689,690	VCKYMN1HB101K	J	AA	100 pF,50V
C691~693	VCEAZAI EW476M	J	AB	47 µF,25V,Electrolytic
C694	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C695~698	VCKYMN1HB102K	J	AA	0.001 µF,50V
C699	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C701	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C702	VCEAZAI AW227M	J	AC	220 µF,10V,Electrolytic
C703	VCCSMN1HL150J	J	AA	15 pF,50V
C704	VCCSMN1HL180J	J	AA	18 pF,50V
C706	VCTYMN1CY103N	J	AA	0.01 µF,16V
C707	VCEAZAI HW335M	J	AB	3.3 µF,50V,Electrolytic
C708	VCTYMN1CY103N	J	AA	0.01 µF,16V
C709	VCEAZAI AW107M	J	AB	100 µF,10V,Electrolytic
C710	VCEAZA1AW227M	J	AC	220 µF,10V,Electrolytic
C712,713	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic

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C715	VCTYBT1EF223Z J A		A	0.022 µF,25V
C716	VCEAZA1CW476M J A		B	47 µF,16V,Electrolytic
C721~723	VCKYMN1HB151K J A		A	150 pF,50V
C724,725	VCKYBT1HB151K J A		A	150 pF,50V
C726	VCKYMN1HB151K J A		A	150 pF,50V
c729	VCEAZA1CW476M J A		B	47 µF,16V,Electrolytic
C730	VCTYBT1EF223Z J A		A	0.022 µF,25V
C731	VCEAZA1EW476M J A		B	47 µF,25V,Electrolytic
C732	VCTYBT1EF223Z J A		A	0.022 µF,25V
c733	VCEAZA1CW106M J A		C	10 µF,16V,Electrolytic
C801	VCEAZW1HW228M J A		H	2200 µF,50V,Electrolytic
cao2	VCEAZAI VW1 07M J AC			100 µF,35V,Electrolytic
C803,804	VCEAZAI HW476M J AB			47 µF,50V,Electrolytic
C805,806	VCQYKA1HM473K J A		B	0.047 µF,50V,Mylar
C807~810	VCQYKA1HM473K J A		B	0.047 µF,50V,Mylar
C811	VCEAZA1HW476M J A B			4 7 µF,50V,Electrolytic
C812,813	VCEAZAI HW1 07M J AC			100 µF,50V,Electrolytic
C817	VCEAZA1HW475M J A B			4 . 7 µF,50V,Electrolytic
C820	VCTYBT1 EF223Z J A		A	0.022 µF,25V
ca23	VCEAZA1EW476M J A B			4 7 µF,25V,Electrolytic
ca24	VCKZPA1 HF223Z J A		A	0.022 µF,50V
ca25	VCEAZAI EW226M J AB			22 µF,25V,Electrolytic
C826~828	VCEAZAI EW476M J AB			47 µF,25V,Electrolytic
ca29	VCEAZW1 EW478M J AK			4700 µF,25V,Electrolytic
C831	VCEAZAI HW106M J AB			10 µF,50V,Electrolytic
C901	VCEAZA1HW105M J A		B	1 µF,50V,Electrolytic
C902	VCCSPA1HL221J J A A			2 2 0 pF,50V
C903	VCEAZAI HW105M J AB			1 µF,50V,Electrolytic
C904	VCEAZA1HW106M J AB			10 µF,50V,Electrolytic
C905	VCCSPA1HL221J J A A			2 2 0 pF,50V
C907	VCEAZA1HW106M J A B			1 0 µF,50V,Electrolytic
C909,910	VCEAZW1HW228M J AH			2200 µF,50V,Electrolytic
C911,912	VCEAZAI HW107M J AC			100 µF,50V,Electrolytic
C915	VCCSBT1HL470J J A A			4 7 pF,50V
C916	VCCSPA1HL150J J A		A	15 pF,50V
C917,918	VCEAZAI HW476M J AB			47 µF,50V,Electrolytic
C919,920	VCTYPA1EX152K J A		A	0.0015 µF,25V
C921,922	VCEAZA1HW1 05M J AB			1 µF,50V,Electrolytic
c923	VCCSBT1HL470J J A A			4 7 pF,50V
c924	VCCSPA1HL150J J A A			1 5 pF,50V
C927,928	VCEAZA1VW476M J A C			4 7 µF,35V,Electrolytic
c933	VCEAZAI VW227M J AC			220 µF,35V.Electrolytic
C934~937	VCQYKA1HM104K J A B			0 . 1 µF,50V,Mylar
C938	VCEAZA1VW476M J A C			4 7 µF,35V,Electrolytic
c941	VCKZPA1 HF223Z J A		A	0.022 µF,50V
C942,943	VCEAZA1HW476M J A B			4 7 µF,50V,Electrolytic
c944	VCEAZV1EW108M J		AE	1000 µF,25V,Electrolytic
c945	VCEAZV1EW228M J AG			2200 µF,25V,Electrolytic
C949,950	VCQYKAI HM104K J AB			0.1 µF,50V,Mylar
C959,960	VCQYKA1HM104K J A B			0 . 1 µF,50V,Mylar
C977	VCEAZA0JW108M J A C			1000 µF,6.3V,Electrolytic
C978	VCEAZA1HW476M J A B			4 7 µF,50V,Electrolytic
c979	VCEAZAI HW106M J AB			10 µF,50V,Electrolytic
CM01	VCEAZA1CW476M J A B			4 7 µF,16V,Electrolytic

RESISTORS

	VRD-MN2BD000C J A A			0 ohm,Jumper,ø1.4×3.5mm,Ivory
R1	VRD-MN2BD220J J A		A	22 ohms,1/8W
R2	VRD-MN2BD102J J A		A	1 kohm,1/8W
R8	VRD-MN2BD153J J A A			1 5 kohms,1/8W
R9	VRD-MN2BD104J J A A			1 0 0 kohm,1/8W
R10	VRD-MN2BD222J J A A			2 . 2 kohms,1/8W
R11	VRD-ST2CD682J J A A			6 . 8 kohms,1/6W
R12	VRD-MN2BD101J J A A			1 0 0 ohm,1/8W
R13	VRD-MN2BD102J J A A			1 kohm,1/8W
R14	VRD-MN2BD273J J		AA	27 kohms,1/8W
R15	VRD-MN2BD123J J		AA	12 kohms,1/8W
R16	VRD-MN2BD332J J		AA	3.3 kohms,1/8W
R17	VRD-MN2BD333J J		AA	33 kohms,1/8W
R18	VRD-MN2BD153J J		AA	15 kohms,1/8W
R19,20	VRD-ST2CD102J J		AA	1 kohm,1/6W
R21,22	VRD-MN2BD223J J		AA	22 kohms,1/8W
R23	VRD-MN2BD103J J		AA	10 kohm,1/8W
R24	VRD-MN2BD473J J		AA	47 kohms,1/8W
R25	VRD-MN2BD152J J		AA	1.5 kohms,1/8W
R26	VRD-MN2BD823J J A A			8 2 kohms,1/8W
R27	VRD-MN2BD393J J A A			3 9 kohms,1/8W
R28	VRD-MN2BD103J J A A			1 0 kohm,1/8W
R29	VRD-MN2BD563J J A A			5 6 kohms,1/8W
R30	VRD-MN2BD682J J A A			6 . 8 kohms,1/8W
R31	VRD-MN2BD122J J A A			1 . 2 kohms,1/8W

NO.	PART CODE	★ PRICE RANK	DESCRIPTION
R32	VRD-MN2BD103J	J A A	10 kohm,1/8W
R33	VRD-MN2BD122J	J A A	1.2 kohms,1/8W
R34	VRD-MN2BD223J	J A A	22 kohms.1/8W
R35.36	VRD-MN2BD224J	J A A	220 kohms,1/8W
R37	VRD-ST2CD823J	J A A	82 kohms,1/6W
R38	VRD-MN2BD471J	J A A	470 ohms,1/8W
R39	VRD-MN2BD102J	J A A	1 kohm,1/8W
R40	VRD-MN2BD562J	J A A	5.6 kohms,1/8W
R41,42	VRD-MN2BD473J	J A A	47 kohms,1/8W
R43	VRD-MN2BD563J	J A A	56 kohms,1/8W
R44	VRD-MN2BD333J	J A A	33 kohms,1/8W
R45	VRD-MN2BD472J	J A A	4.7 kohms,1/8W
R46	VRD-MN2BD561J	J A A	560 ohms,1/8W
R47,48	VRD-MN2BD103J	J A A	10 kohm,1/8W
R50	VRD-MN2BD681J	J A A	680 ohms,1/8W
R51	VRD-ST2CD335J	J A A	3.3 Mohms,1/6W
R52	VRD-MN2BD273J	J A A	27 kohms,1/8W
R53	VRD-MN2BD122J	J A A	1.2 kohms,1/8W
R54	VRD-ST2CD331J	J A A	330 ohms,1/6W
R55	VRD-MN2BD151J	J A A	150 ohms,1/8W
R57	VRD-MN2BD102J	J A A	1 kohm,1/8W
R58,59	VRD-ST2CD102J	J A A	1 kohm,1/6W
R60~62	VRD-MN2BD102J	J A A	1 kohm,1/8W
R63	VRD-ST2CD102J	J A A	1 kohm,1/6W
R64	VRD-MN2BD220J	J A A	22 ohms,1/8W
R66	VRD-MN2BD221J	J A A	220 ohms,1/8W
R71,72	VRD-MN2BD272J	J A A	2.7 kohms,1/8W
R73,74	VRD-MN2BD391J	J A A	390 ohms,1/8W
R80	VRD-ST2CD682J	J A A	6.8 kohms,1/6W
R81	VRD-MN2BD272J	J A A	2.7 kohms,1/8W
R82	VRD-ST2CD682J	J A A	6.8 kohms.1/6W
R83	VRD-ST2EE3R9J	J A A	3.9 ohms,1/4W
R85	VRD-RT2HD560J	J A A	56 ohms,1/2W
R86	VRD-MN2BD222J	J A A	2.2 kohms.1/8W
R87	VRD-MN2BD103J	J A A	10 kohm,1/8W
R88~91	VRD-ST2CD102J	J A A	1 kohm,1/6W
R93	VRD-MN2BD221J	J A A	220 ohms,1/8W
R101	VRD-MN2BD102J	J A A	1 kohm,1/8W
R102	VRD-ST2CD102J	J A A	1 kohm,1/6W
R103.104	VRD-MN2BD222J	J A A	2.2 kohms.1/8W
R105,106	VRD-MN2BD332J	J A A	3.3 kohms,1/8W
R107,108	VRD-MN2BD473J	J A A	47 kohms,1/8W
R109,110	VRD-ST2CD472J	J A A	4.7 kohms,1/6W
R111,112	VRD-ST2CD153J	J A A	15 kohms,1/6W
R113,114	VRD-MN2BD103J	J A A	10 kohm,1/8W
R115	VRD-MN2BD472J	J A A	4.7 kohms,1/8W
R117	VRD-MN2BD102J	J A A	1 kohm,1/8W
R118	VRD-ST2CD102J	J A A	1 kohm,1/6W
R119,120	VRD-ST2CD560J	J A A	56 ohms,1/6W
R121,122	VRD-MN2BD104J	J A A	100 kohm,1/8W
R123,124	VRD-MN2BD472J	J A A	4.7 kohms,1/8W
R125,126	VRD-MN2BD562J	J A A	5.6 kohms,1/8W
R131,132	VRD-MN2BD153J	J A A	15 kohms,1/8W
R134	VRD-MN2BD683J	J AA	68 kohms,1/8W
R135,136	VRD-MN2BD182J	J AA	1.8 kohms,1/8W
R137,138	VRD-ST2CD682J	J AA	6.8 kohms,1/6W
R139,140	VRD-MN2BD561J	J AA	560 ohms,1/8W
R141,142	VRD-MN2BD470J	J AA	47 ohms,1/8W
R143~147	VRD-MN2BD103J	J AA	10 kohm,1/8W
R153,154	VRD-MN2BD103J	J AA	10 kohm,1/8W
R155,156	VRD-ST2CD124J	J AA	120 kohms,1/6W
R158	VRD-ST2EE471J	J AA	470 ohms,1/4W
R160	VRD-ST2EE151J	J A A	150 ohms,1/4W
R162	VRD-MN2BD473J	J A A	47 kohms,1/8W
R164	VRD-ST2CD472J	J A A	4.7 kohms,1/6W
R166	VRD-MN2BD273J	J A A	27 kohms,1/8W
R167	VRD-MN2BD473J	J A A	47 kohms,1/8W
R168	VRD-ST2CD4R7J	J A A	4.7 ohms,1/6W
R191	VRD-ST2CD102J	J A A	1 kohm,1/6W
R192	VRD-MN2BD102J	J A A	1 kohm,1/8W
R193	VRD-ST2EE221J	J A A	220 ohms,1/4W
R202	VRD-ST2CD102J	J A A	1 kohm,1/6W
R203	VRD-MN2BD102J	J A A	1 kohm,1/8W
R205~212	VRD-MN2BD102J	J A A	1 kohm,1/8W
R213~217	VRD-ST2CD102J	J A A	1 kohm,1/6W
R218	VRD-MN2BD102J	J A A	1 kohm,1/8W
R219	VRD-MN2BD103J	J A A	10 kohm,1/8W
R220~222	VRD-MN2BD102J	J A A	1 kohm,1/8W
R224~227	VRD-ST2CD102J	J A A	1 kohm,1/6W
R228~230	VRD-MN2BD102J	J A A	1 kohm,1/8W
R232	VRD-MN2BD102J	J A A	1 kohm,1/8W
R233	VRD-ST2CD102J	J A A	1 kohm,1/6W

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
R234,235	VRD-MN2BD103J	J A A	10 kohm,1/8W
R237	VRD-ST2CD102J	J A A	1 kohm,1/6W
R238	VRD-MN2BD102J	J A A	1 kohm,1/8W
R240	VRD-MN2BD103J	J A A	10 kohm,1/8W
R241	VRD-ST2CD102J	J A A	1 kohm,1/6W
R242~244	VRD-MN2BD102J	J A A	1 kohm,1/8W
R245~247	VRD-ST2CD102J	J A A	1 kohm,1/6W
R252	VRD-MN2BD223J	J A A	22 kohms,1/8W
R253,254	VRD-MN2BD102J	J A A	1 kohm,1/8W
R256~258	VRD-MN2BD102J	J A A	1 kohm,1/8W
R259~261	VRD-ST2CD102J	J A A	1 kohm,1/6W
R262	VRD-ST2CD123J	J A A	12 kohms,1/6W
R263	VRD-ST2CD102J	J A A	1 kohm,1/6W
R264	VRD-MN2BD102J	J A A	1 kohm,1/8W
R265	VRD-MN2BD472J	J A A	4.7 kohms,1/8W
R266	VRD-MN2BD223J	J A A	22 kohms,1/8W
R271	VRD-ST2CD102J	J A A	1 kohm,1/6W
R272	VRD-MN2BD103J	J A A	10 kohm,1/8W
R274	VRD-MN2BD103J	J A A	10 kohm,1/8W
R276	VRD-MN2BD473J	J A A	47 kohms,1/8W
R279	VRD-ST2CD103J	J A A	10 kohm,1/6W
R280	VRD-MN2BD103J	J A A	10 kohm,1/8W
R319	VRD-MN2BD104J	J A A	100 kohm,1/8W
R323	VRD-MN2BD683J	J A A	68 kohms,1/8W
R324	VRD-MN2BD104J	J A A	100 kohm,1/8W
R336	VRD-ST2CD472J	J A A	4.7 kohms,1/6W
R344	VRD-MN2BD471J	J A A	470 ohms,1/8W
R345	VRD-MN2BD472J	J A A	4.7 kohms,1/8W
R350	VRD-ST2CD272J	J A A	2.7 kohms,1/6W
R351	VRD-MN2BD562J	J A A	5.6 kohms,1/8W
R352	VRD-MN2BD102J	J A A	1 kohm,1/8W
R353	VRD-MN2BD271J	J A A	270 ohms,1/8W
R354	VRD-ST2CD392J	J A A	3.9 kohms,1/6W
R355	VRD-MN2BD332J	J A A	3.3 kohms,1/8W
R356	VRD-MN2BD102J	J A A	1 kohm,1/8W
R357	VRD-ST2CD474J	J A A	470 kohms,1/6W
R358	VRD-MN2BD822J	J A A	8.2 kohms,1/8W
R359	VRD-MN2BD182J	J A A	1.8 kohms,1/8W
R360	VRD-MN2BD472J	J A A	4.7 kohms,1/8W
R361,362	VRD-MN2BD222J	J A A	470 ohms,1/8W
R363,364	VRD-MN2BD182J	J A A	2.2 kohms,1/8W
R365,366	VRD-MN2BD103J	J A A	10 kohm,1/8W
R367	VRD-MN2BD102J	J A A	1 kohm,1/8W
R368	VRD-ST2CD333J	J A A	33 kohms,1/6W
R369	VRD-MN2BD122J	J A A	82 ohms,1/8W
R371~374	VRD-MN2BD102J	J A A	1 kohm,1/8W
R376	VRD-MN2BD102J	J A A	1 kohm,1/8W
R377	VRD-ST2CD473J	J A A	47 kohms,1/6W
R378	VRD-MN2BD823J	J A A	82 kohms,1/8W
R379	VRD-MN2BD222J	J A A	2.2 kohms,1/8W
R380	VRD-MN2BD152J	J A A	1.5 kohms.1/8W
R381	VRD-MN2BD103J	J A A	10 kohm,1/8W
R382	VRD-ST2EE151J	J A A	150 ohms,1/4W
R383~385	VRD-MN2BD562J	J A A	5.6 kohms,1/8W
R387	VRD-MN2BD223J	J A A	22 kohms,1/8W
R391,392	VRD-ST2EE391J	J A A	390 ohms,1/4W
R393	VRD-ST2CD102J	J A A	1 kohm,1/6W
R395	VRD-ST2CD473J	J A A	47 kohms,1/6W
R451,452	VRD-ST2CD224J	J AA	220 kohms,1/6W
R453	VRD-ST2CD104J	J A A	100 kohm,1/6W
R454	VRD-ST2CD153J	J A A	15 kohms,1/6W
R455	VRD-ST2CD392J	J A A	3.9 kohms,1/6W
R456,457	VRD-ST2CD273J	J A A	27 kohms,1/6W
R458	VRD-ST2CD682J	J A A	6.8 kohms,1/6W
R459	VRD-ST2CD123J	J A A	12 kohms,1/6W
R460	VRD-ST2CD152J	J A A	1.5 kohms,1/6W
R461	VRD-ST2CD102J	J A A	1 kohm,1/6W
R463~465	VRD-ST2CD104J	J A A	100 kohm,1/6W
R501,502	VRD-MN2BD104J	J A A	100 kohm,1/8W
R503	VRD-MN2BD102J	J A A	1 kohm,1/8W
R504	VRD-MN2BD105J	J A A	1 Mohm,1/8W
R505,506	VRD-MN2BD472J	J A A	4.7 kohms,1/8W
R507	VRD-ST2CD102J	J A A	1 kohm,1/6W
R508	VRD-MN2BD393J	J A A	39 kohms,1/8W
R509	VRD-MN2BD472J	J A A	4.7 kohms,1/8W
R510	VRD-MN2BD183J	J A A	1% kohms,1/8W
R511	VRD-MN2BD102J	J A A	1 kohm,1/8W
R512	VRD-MN2BD472J	J A A	4.7 kohms,1/8W
R518,519	VRD-ST2CD102J	J A A	1 kohm,1/6W
R529	VRD-MN2BD331J	J A A	330 ohms,1/8W
R530,531	VRD-MN2BD332J	J A A	3.3 kohms,1/8W
R551	VRD-ST2CD103J	J A A	10 kohm,1/6W

NO.	PART CODE	★ PRICE RANK	DESCRIPTION
R552	VRD-MN2BD123J	J A A	12 kohms,1/8W
R553	VRD-ST2CD123J	J A A	12 kohms,1/6W
R554	VRD-MN2BD183J	J A A	18 kohms,1/8W
R555	VRD-ST2CD563J	J A A	56 kohms,1/6W
R556	VRD-MN2BD333J	J A A	33 kohms,1/8W
R557	VRD-MN2BD393J	J AA	39 kohms,1/8W
R558	VRD-MN2BD683J	J AA	68 kohms, 1/8W
R559	VRD-MN2BD223J	J AA	22 kohms,1/8W
R560	VRD-MN2BD474J	J AA	470 kohms,1/8W
R561	VRD-ST2CD153J	J AA	15 kohms,1/6W
R562	VRD-MN2BD394J	J AA	390 kohms,1/8W
R563	VRD-MN2BD474J	J AA	470 kohms,1/8W
R564	VRD-MN2BD394J	J AA	390 kohms,1/8W
R565	VRD-MN2BD684J	J AA	680 kohms,1/8W
R566	VRD-MN2BD225J	J A A	2.2 Mohms,1/8W
R567	VRD-MN2BD274J	J A A	270 kohms,1/8W
R568~571	VRD-MN2BD224J	J AA	220 kohms,1/8W
R572	VRD-MN2BD225J	J AA	2.2 Mohms,1/8W
R573	VRD-MN2BD564J	J AA	560 kohms,1/8W
R574,575	VRD-ST2EE331J	J AA	330 ohms,1/4W
R576,577	VRD-ST2CD104J	J AA	100 kohm,1/6W
R578	VRD-MN2BD104J	J AA	100 kohm,1/8W
R579.580	VRD-ST2CD104J	J AA	100 kohm,1/6W
R601	VRD-ST2CD331J	J AA	330 ohms,1/6W
R602	VRD-MN2BD102J	J AA	1 kohm,1/8W
R603	VRD-ST2CD331J	J AA	330 ohms,1/6W
R604	VRD-MN2BD102J	J AA	1 kohm,1/8W
R606	VRD-MN2BD102J	J AA	1 kohm,1/8W
R608	VRD-ST2CD102J	J AA	1 kohm,1/6W
R610	VRD-ST2CD102J	J AA	1 kohm,1/6W
R611	VRD-MN2BD102J	J AA	1 kohm,1/8W
R612	VRD-ST2CD333J	J AA	33 kohms,1/6W
R613~615	VRD-MN2BD102J	J AA	1 kohm,1/8W
R616	VRD-ST2CD102J	J AA	1 kohm,1/6W
R617	VRD-MN2BD102J	J AA	1 kohm,1/8W
R618	VRD-MN2BD102J	J AA	1 kohm,1/8W
R619	VRD-MN2BD102J	J AA	1 kohm,1/8W
R620,621	VRD-MN2BD222J	J AA	2.2 kohms,1/8W
R622,623	VRD-MN2BD474J	J AA	470 kohms,1/8W
R624	VRD-MN2BD223J	J AA	22 kohms,1/8W
R625	VRD-ST2CD474J	J AA	470 kohms,1/6W
R626,627	VRD-MN2BD222J	J AA	2.2 kohms,1/8W
R628,629	VRD-ST2CD473J	J AA	47 kohms,1/6W
R630,631	VRD-MN2BD822J	J AA	8.2 kohms,1/8W
R632,633	VRD-MN2BD682J	J AA	6.8 kohms,1/8W
R634,635	VRD-MN2BD104J	J AA	100 kohm,1/8W
R636,637	VRD-ST2CD822J	J AA	8.2 kohms,1/6W
R638,639	VRD-ST2EE331J	J AA	330 ohms,1/4W
R641	VRD-MN2BD103J	J AA	10 kohm,1/8W
R642	VRD-ST2CD103J	J AA	10 kohm,1/6W
R644,645	VRD-MN2BD222J	J AA	2.2 kohms,1/8W
R646,647	VRD-ST2CD222J	J AA	2.2 kohms,1/6W
R648,649	VRD-MN2BD223J	J AA	22 kohms,1/8W
R650~653	VRD-MN2BD182J	J AA	1.8 kohms,1/8W
R654~657	VRD-MN2BD273J	J AA	27 kohms, 1/8W
R658,659	VRD-ST2CD222J	J AA	2.2 kohms,1/6W
R660	VRD-ST2CD473J	J AA	47 kohms,1/6W
R661	VRD-MN2BD473J	J AA	47 kohms,1/8W
R662,663	VRD-MN2BD392J	J AA	3.9 kohms,1/8W
R665	VRD-MN2BD331J	J AA	330 ohms,1/8W
R666	VRD-ST2CD331J	J AA	330 ohms,1/6W
R669	VRD-ST2CD333J	J AA	33 kohms,1/6W
R671,672	VRD-MN2BD222J	J AA	2.2 kohms,1/8W
R673	VRD-ST2CD222J	J AA	2.2 kohms,1/6W
R674,675	VRD-MN2BD222J	J A A	2.2 kohms,1/8W
R676	VRD-ST2CD222J	J A A	2.2 kohms,1/6W
R677,678	VRD-MN2BD103J	J A A	10 kohm,1/8W
R679	VRD-ST2CD221J	J A A	220 ohms,1/6W
R680	VRD-MN2BD223J	J A A	22 kohms,1/8W
R681.682	VRD-MN2BD222J	J A A	2.2 kohms,1/8W
R683	VRD-MN2BD104J	J A A	100 kohm,1/8W
R684	VRD-ST2CD104J	J A A	100 kohm,1/6W
R685,686	VRD-MN2BD152J	J A A	1.5 kohms,1/8W
R687,688	VRD-MN2BD562J	J A A	5.6 kohms,1/8W
R689,690	VRD-MN2BD102J	J A A	1 kohm,1/8W
R691,692	VRD-MN2BD272J	J A A	2.7 kohms,1/8W
R693.694	VRD-ST2CD470J	J A A	47 ohms,1/6W
R695	VRD-MN2BD104J	J A A	100 kohm,1/8W
R696	VRD-ST2CD104J	J A A	100 kohm,1/6W
R697	VRD-MN2BD223J	J A A	22 kohms,1/8W
R698	VRD-ST2CD223J	J A A	22 kohms,1/6W
R699	VRD-ST2CD223J	J A A	22 kohms,1/6W

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
R701~710	VRD-MN2BD102J	AA	1 kohm,1/8W
R711	VRD-MN2BD101J	AA	100 ohm,1/8W
R712~722	VRD-ST2CD102J	AA	1 kohm,1/6W
R726~729	VRD-MN2BD102J	AA	1 kohm,1/8W
R731,732	VRD-MN2BD822J	AA	8.2 kohms,1/8W
R733	VRD-ST2CD822J	AA	8.2 kohms,1/6W
R734~736	VRD-MN2BD822J	AA	8.2 kohms,1/8W
R737~741	VRD-ST2CD102J	AA	1 kohm,1/6W
R742~744	VRD-ST2CD821J	AA	820 ohms,1/6W
R746~748	VRD-ST2CD821J	AA	820 ohms,1/6W
R749	VRD-ST2CD103J	J A A	10 kohm,1/6W
R763	VRD-MN2BD102J	AA	1 kohm,1/8W
R765	VRD-MN2BD332J	AA	3.3 kohms,1/8W
R766	VRD-MN2BD104J	AA	100 kohm,1/8W
R767	VRD-MN2BD820J	J A A	82 ohms,1/8W
R768	VRD-MN2BD103J	J AA	10 kohm,1/8W
R769	VRD-ST2CD103J	AA	10 kohm,1/6W
R770	VRD-MN2BD102J	AA	1 kohm,1/8W
R771	VRD-MN2BD101J	AA	100 ohm,1/8W
R772	VRD-MN2BD102J	AA	1 kohm,1/8W
R773	VRD-ST2CD101J	AA	100 ohm,1/6W
R774	VRD-MN2BD151J	AA	150 ohms,1/8W
R775	VRD-MN2BD222J	AA	2.2 kohms,1/8W
R776	VRD-MN2BD102J	AA	1 kohm,1/8W
R777	VRD-MN2BD330J	AA	33 ohms,1/8W
R778	VRD-ST2CD104J	AA	100 kohm,1/6W
R779	VRD-ST2CD103J	AA	10 kohm,1/6W
R780	VRD-ST2CD182J	AA	1.8 kohms,1/6W
R781	VRD-ST2CD103J	AA	10 kohm,1/6W
R790	VRD-ST2CD101J	AA	100 ohm,1/6W
R791	VRD-ST2CD122J	AA	1.2 kohms,1/6W
⚠R792	VRG-ST2EC220J	AB	22 ohms,1/4W,Fusible
R793	VRD-ST2EE4R7J	J AA	4.7 ohms,1/4W
R801	VRD-ST2CD123J	AA	12 kohms,1/6W
R802,803	VRD-ST2EE221J	AA	220 ohms,1/4W
R805	VRD-ST2CD101J	J AA	100 ohm,1/6W
R806	VRD-ST2CD222J	J AA	2.2 kohms,1/6W
R807	VRD-ST2CD103J	AA	10 kohm,1/6W
R820	VRD-ST2CD470J	AA	47 ohms,1/6W
R824	VRD-ST2EE561J	AA	560 ohms,1/4W
R825,826	VRD-ST2CD330J	AA	33 ohms,1/6W
R827	VRD-ST2CD102J	AA	1 kohm,1/6W
R828	VRD-ST2CD333J	AA	33 kohms,1/6W
R829	VRD-ST2CD102J	A A	1 kohm,1/6W
R835	VRD-ST2EE561J	J AA	560 ohms,1/4W
R836,837	VRD-ST2CD223J	AA	22 kohms,1/6W
R838	VRD-ST2CD103J	AA	10 kohm,1/6W
R901	VRD-ST2CD153J	AA	15 kohms,1/6W
R902	VRD-ST2CD683J	AA	68 kohms,1/6W
R903	VRD-ST2CD153J	AA	15 kohms,1/6W
R904	VRD-ST2CD683J	AA	68 kohms,1/6W
R905	VRD-ST2CD102J	AA	1 kohm,1/6W
R907	VRD-ST2CD102J	AA	1 kohm,1/6W
R910	VRD-ST2CD222J	AA	2.2 kohms,1/6W
R911	VRD-ST2CD103J	J A A	10 kohm,1/6W
⚠R912,913	VRG-ST2EC101J	AB	100 ohm,1/4W,Fusible
R914	VRD-ST2CD153J	AA	15 kohms,1/6W
R915	VRD-ST2CD224J	J AA	220 kohms,1/6W
R916	VRD-ST2CD102J	AA	1 kohm,1/6W
R917	VRD-ST2CD563J	AA	56 kohms,1/6W
R918	VRD-ST2CD471J	AA	470 ohms,1/6W
R919,920	VRD-ST2CD333J	AA	33 kohms,1/6W
R921	VRD-ST2CD103J	AA	10 kohm,1/6W
R922	VRD-ST2CD471J	J AA	470 ohms,1/6W
R923	VRD-ST2CD563J	AA	56 kohms,1/6W
R924~926	VRD-ST2CD102J	AA	1 kohm,1/6W
R928,929	VRD-ST2CD181J	AA	180 ohms,1/6W
R932	VRD-ST2CD183J	AA	18 kohms,1/6W
R933	VRD-ST2CD103J	A A	10 kohm,1/6W
R934	VRD-ST2EE4R7J	AA	4.7 ohms,1/4W
R937	VRD-ST2EE4R7J	AA	4.7 ohms,1/4W
R941,942	VRD-RT2HD271J	AA	270 ohms,1/2W
R944	VRD-ST2EE4R7J	AA	4.7 ohms,1/4W
R949	VRD-ST2EE4R7J	AA	4.7 ohms,1/4W
R962	VRD-ST2CD821J	AA	820 ohms,1/6W
R963	VRS-VV3DA681J	AC	680 ohms,2W
R964,965	VRD-ST2CD472J	AA	4.7 kohms,1/6W
R966	VRD-ST2CD153J	AA	15 kohms,1/6W
R967	VRD-ST2CD683J	AA	68 kohms,1/6W
A968	VRD-ST2CD102J	AA	1 kohm,1/6W
R969	VRD-RT2HD680J	AA	68 ohms,1/2W
RD01	VRD-MN2BD102J	AA	1 kohm,1/8W

NO.	PART CODE	★ PRICE RANK	DESCRIPTION
RD02	VRD-MN2BD122J	J A A	1.2 kohms,1/8W
RD03	VRD-ST2CD182J	J A A	1.8 kohms,1/6W
RD04	VRD-ST2CD222J	J A A	2.2 kohms,1/6W
RD05	VRD-ST2CD392J	J A A	3.9 kohms,1/6W
RD06	VRD-ST2CD562J	J A A	5.6 kohms,1/6W
RD07	VRD-ST2CD123J	J A A	12 kohms,1/6W
RD08	VRD-MN2BD102J	J A A	1 kohm,1/8W
RD09	VRD-MN2BD122J	J A A	1.2 kohms,1/8W
RD10	VRD-MN2BD182J	J A A	1.8 kohms,1/8W
RD15	VRD-ST2CD102J	J A A	1 kohm,1/6W
RD16	VRD-ST2CD122J	J A A	1.2 kohms,1/6W
RD17	VRD-MN2BD182J	J A A	1.8 kohms,1/8W
RD18	VRD-MN2BD222J	J A A	2.2 kohms,1/8W
RD19	VRD-ST2CD392J	J A A	3.9 kohms,1/6W
RD20	VRD-MN2BD562J	J A A	5.6 kohms,1/8W
RD21	VRD-MN2BD123J	J A A	12 kohms,1/8W
RD22	VRD-MN2BD102J	J A A	1 kohm,1/8W
RD23	VRD-ST2CD122J	J A A	1.2 kohms,1/6W
RD24	VRD-ST2CD182J	J A A	1.8 kohms,1/6W
RD25	VRD-MN2BD222J	J A A	2.2 kohms,1/8W
RD26	VRD-MN2BD392J	J A A	3.9 kohms,1/8W
RD27	VRD-ST2CD562J	J A A	5.6 kohms,1/6W
RD28	VRD-MN2BD123J	J A A	12 kohms,1/8W
RD29	VRD-MN2BD102J	J A A	1 kohm,1/8W
RD30	VRD-MN2BD122J	J A A	1.2 kohms,1/8W
RD31	VRD-MN2BD182J	J A A	1.8 kohms,1/8W
RD32	VRD-MN2BD222J	J A A	2.2 kohms,1/8W
RD33	VRD-MN2BD392J	J A A	3.9 kohms,1/8W
RD34	VRD-MN2BD562J	J A A	5.6 kohms,1/8W
RD35	VRD-MN2BD123J	J A A	12 kohms,1/8W
RD36	VRD-ST2CD153J	J A A	15 kohms,1/6W
RM05	VRD-MN2BD103J	J A A	10 kohm,1/8W
RM06	VRD-MN2BD222J	J A A	2.2 kohms,1/8W
RM07	VRD-MN2BD100J	J A A	10 ohm,1/8W
RM08	VRD-MN2BD103J	J A A	10 kohm,1/8W
RM09	VRD-ST2CD222J	J A A	2.2 kohms,1/6W
RM10	VRD-ST2CD122J	J A A	1.2 kohms,1/6W
RM11	VRD-MN2BD822J	J A A	8.2 kohms,1/8W
RM12	VRD-MN2BD333J	J A A	33 kohms,1/8W
RM14,15	VRD-ST2CD103J	J A A	10 kohm,1/6W
RM16	VRD-MN2BD103J	J A A	10 kohm,1/8W
RM19	VRD-MN2BD332J	J A A	3.3 kohms,1/8W
RM20	VRD-MN2BD103J	J A A	10 kohm,1/8W

OTHER CIRCUITRY PARTS

BI99/CNS99	QCNWN1262AWZZ	J AK	Connector Ass'y,3-3Pin
BI102/CNS102	QCNWN0941 AWZZ	J AK	Connector Ass'y,6-7Pin
BI201/CNS12	QCNWN1285AWZZ	J AK	Connector Ass'y,14-14Pin
BI601/CNS11	QCNWNI 185AWZZ	J AG	Connector Ass'y,6-6Pin
BIM5/CNS10/CNS5	QCNWNI 184AWZZ	J AL	Connector Ass'y,6-10-2Pin
CNP1	92LCONE5P53253	J A B	Plug,5Pin
CNP2	QCNCM705HAFZZ	J A B	Plug,8Pin
CNP3	92LCONE6P53253	J A C	Plug,6Pin
CNP3A	92LCONE6P53254	J A C	Plug,6Pin
CNP10	QCNCM705KAWZZ	J A C	Plug,10Pin
CNP11	QCNCM704FAWZZ	J A C	Plug,6Pin
CNP12	QCNCM704PAWZZ	J A E	Plug,14Pin
CNP99	QCNCM704GAWZZ	J A C	Plug,3Pin
CNP101	92LCONE3P5267X	J AB	Plug,3Pin
CNP102	92LCONE7P5267X	J A C	Plug,7Pin
CNP301	92LCONE2P5268	J AB	Plug,2Pin
CNP303	QCNCW010LAWZZ	J A D	Socket,12Pin
CNP701	QCNCWZG24AWZZ	J A E	Socket,24Pin
CNP801	QCNCM036EAWZZ	J A F	Plug,2Pin
CNP802	QCNCM035JAWZZ	J A C	Plug,9Pin
CNP803	QCNCM010VAWZZ	J A D	Plug,20Pin
CNP804	92LCONE2P53253	J A B	Plug,2Pin
CNPM1	QCNCW025NAWZZ	J AB	Flat Wire Holder
CNPM2	QCNCM030BAWZZ	J AB	Pin Holder,2Pin
CNS1A/B	QCNWN1181 AWZZ	J AK	Connector Ass'y,5-5Pin
CNS2A/B	QCNWN1182AWZZ	J AH	Connector Ass'y,8-8Pin
CNS3A/B	QCNWN1183AWZZ	J AG	Connector Ass'y,6-6Pin
CNS101	QCNWN0939AWZZ	J AF	Connector Ass'y,3Pin
CNS303	QCNCM010MAFZZ	J A C	Plug,12Pin
CNS701	QCNCWZF24AWZZ	J A E	Socket,24Pin
CNS803	QCNCW010VAWZZ	J A E	Socket,20Pin
CNS804	QCNWN1200AWZZ	J AD	Connector Ass'y,2Pin
⚠ F802,803	92LFUSET312E	J A D	Fuse,T3.15A L 250V
⚠ F804	92LFUSE-T402-E	J A D	Fuse,T3.15A L 250V
⚠ F805	92LFUSE-T162-E	J A D	Fuse,T1.6A L 250V
⚠ F832	92LFUSE-T501E	J AD	Fuse,T500mA L 250V

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
⚠ F901,902	92LFUSE-T402-E	J A D	Fuse,T3.15A L 250V
FE301	RTUNS0008AWZZ	J AN	FM Front End
FL701	VVKBJ549GK/-1	J AX	FL Display
FW701	QCNWN1259AWZZ	J AD	Flat Cable,6Pin
FWM1	QCNWN0943AWZZ	J AF	Flat Wire,13Pin
FWM2	QCNWN0942AWZZ	J AC	Flat Wire,4Pin
JK451	QSOCJ0104AWZZ	J AD	Jack,Sub Woofer
JK452	QSOCJ0403AWZZ	J A L	Jack,VIDEO/AUX
JK700	QJAKM0008AWZZ	J A F	Jack,Headphones
M1	92LMTR1858CASY	J AS	Motor with Chassis [Disc]
M2	92LMTR1854BASY	J AP	Motor with Gear [Sled]
M3	92LMTR2037AS1	J AP	Motor with Worm Gear Pulley [T/T Up/Down Loading]
M901	92LMTR1810A	J AK	Motor,Air Cooling Fan
MM1	92LMTR2512AASY	J AT	Motor with Pulley [Tape]
PHM1	VHPI31535CD-1	J AG	Phote Interrupter
RX701	VHLN63H380A-1	J AK	Remote Sensor,N63H380A
SO301	QTANC0301AWZZ	J A H	Terminal,Antenna
SO801	QSOCA0204AWZZ	J AF	Socket,AC Power Input
SO901	QTANA1001AWZZ	J A C	Terminal,Speaker
SOLM1	92LM-SOL1676A	J AK	Solenoid Ass'y. [Tape]
SOLM2	RPLU-0002AWZZ	J AH	Solenoid Ass'y. [CD]
SW1	QSW-P0004AWZZ	J A E	Switch,Push Type [OPEN/CLOSE]
SW2	QSW-F0001 AWZZ	J AD	Switch,Leaf/Skeleton Type [MECHA UP]
SW3	QSW-P0005AWZZ	J AD	Switch,Push Type [Disc Number]
SW4	QSW-F9001AW01	J AD	Switch,Leaf Type [Pickup In]
SW201	QSW-S0024AWZZ	J A E	Switch,Slide Type [SPAN SELECTOR]
SW701	92LSWICH1401AT	J AC	Switch,Key Type [ON/STAND-BY]
SW702	92LSWICH1401AT	J AC	Switch,Key Type [CLOCK]
SW703	92LSWICH1401AT	J AC	Switch,Key Type [TIMER/SLEEP]
SW704	92LSWICH1401AT	J AC	Switch,Key Type [DISC 1]
SW705	92LSWICH1401AT	J AC	Switch,Key Type [DISC 2]
SW706	92LSWICH1401AT	J AC	Switch,Key Type [DISC 3]
SW707	92LSWICH1401AT	J AC	Switch,Key Type [DISC SKIP]
SW708	92LSWICH1401AT	J AC	Switch,Key Type [OPEN/CLOSE]
SW709	92LSWICH1401AT	J AC	Switch,Key Type [CD]
SW710	92LSWICH1401AT	J AC	Switch,Key Type [TUNER,BAND]
SW711	92LSWICH1401AT	J AC	Switch,Key Type [TAPE]
SW712	92LSWICH1401AT	J AC	Switch,Key Type [VIDEO/AUX]
SW718	92LSWICH1401AT	J AC	Switch,Key Type [CENTER MODEIPHAMTOM]
SW719	92LSWICH1401AT	J AC	Switch,Key Type [CENTER MODE/NORMAL]
SW721	92LSWICH1401AT	J A C	Switch,Key Type [DOLBY PRO LOGIC/BYPASS]
SW723	92LSWICH1401AT	J AC	Switch,Key Type [REC PAUSE]
SW724	92LSWICH1401AT	J A C	Switch,Key Type [TUNING UP/TIME]
SW725	92LSWICH1401AT	J AC	Switch,Key Type [VOLUME UP]
SW726	92LSWICH1401AT	J AC	Switch,Key Type [X-BASS]
SW728	92LSWICH1401AT	J A C	Switch,Key Type [STOP]
SW729	92LSWICH1401AT	J A C	Switch,Key Type [FWD]
SW730	92LSWICH1401AT	J A C	Switch,Key Type [FF,PRESET UP]
SW731	92LSWICH1401AT	J A C	Switch,Key Type [MEMORY/SET]
SW732	92LSWICH1401AT	J A C	Switch,Key Type [TUNING DOWN/TIME]
SW733	92LSWICH1401AT	J A C	Switch,Key Type [VOLUME DOWN]
SW734	92LSWICH1401AT	J A C	Switch,Key Type [EQUALIZER,DEMO]
SW736	92LSWICH1401AT	J A C	Switch,Key Type [REVERSE MODE]
SW737	92LSWICH1401AT	J AC	Switch,Key Type [REV]
SW738	92LSWICH1401AT	J A C	Switch,Key Type [REW/PRESET DOWN]
SW739	92LSWICH1401AT	J A C	Switch,Key Type [CD/TAPE 1 EDIT]
SW740	92LSWICH1401AT	J A C	Switch,Key Type [BEAT CANCEL,TAPE 1 EDIT]
⚠ SW801	QSOCE0006AWZZ	J AH	Switch,Slide Type [VOLTAGE SELECTOR]
SWM3	92LM-SW1676A	J AC	Switch,Leaf Type [REC FWD]
SWM4	92LM-SW1676A	J AC	Switch,Leaf Type [REC RVS]

NO.	PART CODE	★PRICE RANK	DESCRIPTION
SWM5	QSW-F9003AWZZ	J A G	Switch,Leaf Type [F.A.S]
SWM6	92LM-SW1676B	J AD	Switch,Leaf Type [CAM]
WTM1	QCNCW012NAWZZ	J A E	Socket,Wire Trap,13Pin

CD MECHANISM PARTS

301	NGERH001 1 AWZZ	J A C	Gear,Middle
302	NGERH0012AWZZ	J A C	Gear,Drive
303	MLEVP0010AWZZ	J A C	Rail,Guide
304	NSFTM0002AWFW	J AE	Shaft,Guide
305	92LM-CUSN1524A	J AC	Cushion
⚠ 306	92LHPC1MASY	JBG	Pickup Unit Ass'y
306-1	———	—	Pickup Unit (Not Replacement Item)
306-2	NGERR0043AFZZ	J AC	Gear,Rack
306-3	MSPRC0961AFZZ	J AA	Spring,Rack
701	XBSSD26P06000	J AA	Screw,ø2.6×6mm
702	XHBSD20P05000	J AA	Screw,ø2×5mm
703	XBBSD20P03000	J AA	Screw,ø2×3mm
704	LX-WZ1070AFZZ	J AA	Washer,ø1.5×ø3.8×0.25mm
MI	92LMTR1858CASY	J AS	Motor with Chassis [Disc]
M2	92LMTR1854BASY	J AP	Motor with Gear [Side]
SW4	QSW-F9001AW01	J AD	Switch,Leaf Type [Pickup In]

CABINET PARTS

201	GCAB-1044AWSA	J AM	Cabinet,CD Player Base
202	GCAB-1050AWSB	J AS	Top Cabinet
203	GITAR0363AWSA	J AP	Back Board
207	LANGF0032AWZZ	J AC	Support,T/T Lock Lever
208	LANGK0114AWFW	J A F	Bracket,Fan
209	LCHSM0068AWFW1	J	Main Chassis
210	LCHSZ0010AWZZ	J A M	Chassis,Loading
211	LCHSZ0011 AWZZ	J AG	Chassis,CD Mechanism
212	LHLDZI 139AWSA	J A D	Cover,Stabilizer
213	LHLDZ1 140AWZZ	J AB	Guide
214	LHLDZ1141AWZZ	J AB	Support,Pitch
215	LHLDZ1 183AWZZ	J AE	Holder,FL Display
216	MLEVP0066AWZZ	J A E	Lever,Shift
217	MLEVP0067AWZZ	J A C	Lever,Lock
218	MLEVP0068AWZZ	J AB	Lever,Change
219	MLEVP0070AWZZ	J AB	Lever,T/T Lock
220	MLIFP0003AWZZ	J AE	Damper
221	MSPRC0020AWFJ	J AB	Spring,T/T Lock Lever
222	MSPRC0024AWFW	J AB	Spring,Solenoid
223	MSPRD0044AWFJ	J AB	Spring,Lock Lever
224	MSPRD0092AWFJ	J AB	Spring,Cassette,Tape 1
225	MSPRD0093AWFJ	J AB	Spring,Cassette,Tape 2
226	NBLTK0029AWZZ	J A B	Belt,Drive
227	NFANP0001AWZZ	J AD	Rotary Fan
226	NGERH0064AWZZ	J A D	Gear,Cam
229	NGERH0065AWZZ	J A B	Gear,Turntable
230	NGERK0003AWZZ	J A C	Gear,Drive
231	NGERK0004AWZZ	J AB	Gear,Bevel
232	NGERK0005AWZZ	J AB	Gear,Loading
234	NGERW0006AWZZ	J AC	Gear,Worm Wheel
235	NPLYD0001AWZZ	J AB	Pulley
236	NROLP0009AWZZ	J AB	Roller
237	NTNT-001 8AWSA	J AK	Turntable
238	PCUSG0038AWZZ	J AB	Cushion
239	PRDAR0115AWFW	J AY	Heat Sink A
240	PRDAR0107AWFW	J AP	Heat Sink B
242	PSLDM3049AWFW	J AE	Shield Plate
243	PCUSG0022AWZZ	J AB	Cushion
244	92LCAB2916AS1	JBB	Front Panel Ass'y
244-1	———	—	Front Panel (Not Replacement Item)
244-2	HDECQ0299AWSA	J AG	CD Top Panel
244-4	JKNBZ0472AWSB	J AG	Button,CD Disk Number
244-5	JKNBZ0473AWSA	J AD	Button,Open/Close
244-6	JKNBZ0474AWSB	J AG	Button,Function
244-7	JKNBZ0476AWSA	J AF	Button,DOLBY/CENTER MODE]
244-8	JKNBZ0477AWSA	J AD	Button,CLOCK/TIMER/SLEEP
244-9	JKNBZ0478AWSA	J AE	Button,TUNING/TIME/MEMORY/ SET
244-10	JKNBZ0479AWSA	J AD	Button,CLEAR/RANDOM
244-11	JKNBZ0480AWSA	J AE	Button,CD PAUSE
244-12	JKNBZ0481AWSA	J AE	Button,OPERATION A
244-13	JKNBZ0482AWSB	J AK	Button,OPERATION B
244-14	JKNBZ0483AWSB	J AN	Button,OPERATION C
244-15	PCUSG0022AWZZ	J AB	Cushion,Leg
244-16	HDECQ0369AWSA	J AG	Display Panel
244-17	JKNBZ0475AWSB	J AF	Button [X-Bass]
245	QCNWN0769AWZZ	J AD	Wire Lug
246	QLUGP0001AWZZ	J A C	Lug
247	QLUGP0002AWZZ	J A B	LugTerminal [Lug 1]
⚠ 248	QFSHD0001AWZZ	J AB	Holder,Fuse
249	92LCAB2781BS1	J AP	Side Panel Ass'y,Left
249-1	———	—	Side Panel,Left (Not Replacement Item)
249-2	PCUSG0022AWZZ	J A B	Cushion,Leg
250	92LCAB2781CS1	J AP	Side Panel Ass'y,Right
250-1	———	—	Side Panel,Right (Not Replacement Item)
250-2	PCUSG0022AWZZ	J AB	Cushion,Leg
251	92LCOV2891AS1	J AK	Cover Ass'y,CD Tray
251-1	———	—	Cover,CD Tray (Not Replacement Item)
251-2	GCOVA1186AWSB	J AF	Cover,CD Tray Panel Left
251-3	GCOVA1187AWSB	J AF	Cover,CD Tray Panel Right
252	92LCSPR1431C	J A A	Ring,Spring
253	92LBADGE1671A	J A C	Badge,SHARP
254	92LMECHA2512A	JBL	Cassette Mechanism Ass'y
254-1 (MM1)	92LMTR2512AASY	J AT	Motor with Pulley [Tape]
254-2	NBLTH0003AWZZ	J A C	Belt,Main [Tape1]
254-3	NBLTH0004AWZZ	J A C	Belt,Main [Tape2]
254-4	NBLTK0021AWZZ	J AB	Belt,Sub
254-5	NROLY0003AWM1	J AF	Pinch Roller Forward Ass'y.
254-6	NROLY0004AWM1	J AF	Pinch Roller Reverse Ass'y.
254-7(SWM5)	QSW-F9003AWZZ	J A G	Switch,Leaf Type [F.A.S]
254-8	92LMRPH1746A	J A M	Head,Record/Playback/Erase [TAPE 1]
254-9	RHEDK0002AWZZ	J	Head,Playback [TAPE 2]
255	92LMEC2816CTS1	J	Cassette Holder Ass'y.,Tape 1
255-1	———	—	Cassette Holder Ass'y.,Tape 1 (Not Replacement Item)
255-2	HDECQ0346AWSA	J AH	Panel,Cassette,Tape 1
256	92LMEC2916CTS2	J AN	Cassette Holder Ass'y.,Tape 2
256-1	———	—	Cassette Holder Ass'y.,Tape 2 (Not Replacement Item)
256-2	HDECQ0347AWSA	J AH	Panel,Cassette,Tape 2
257	92LHOLD2037AS1	J AK	Stabilizer Ass'y.
257-1	———	—	Stabilizer (Not Replacement Item)
257-2	PMAGF0001AWZZ	J AF	Magnet
257-3	92LSUPT1749D	J AA	Support,Magnet
258	92LN-BAND1318A	J AA	Nylon Band,80mm
259	LHLDZ1188AWZZ	J	Holder,LED
260	LANGT0047AWFW	J AE	Bracket,Tuner PWB.
261	LANGT0048AWFW	J AD	Bracket,Tuner PWB.
262	LHLDZ1 187AWZZ	J AC	Holder,LED
263	QCNWN1260AWZZ	J AL	Flat Cable,24Pin
264	92LCAUT1706A1	J AC	Label,CD Laser Caution
265	92LCAUT1 7 0 6 B	J AA	Label,CD Laser Caution Mark
266	LANGF0039AWFW1	J AC	Support Power Transformer
267	TLABS0161AWZZ	J	Label,CPA
268	TSPC-0507AWZZ	J	Label,Specifications [For Thailand]
268	TSPC-0508AWZZ	J	Label,Specifications [For Taiwan]
269	TLABS0180AWZZ	J	Safety Label [For Hong Kong]
601	LX-EZ0005AWFD	J AA	Screw,Special
602	LX-HZ0082AFZZ	J AA	Screw,ø4×8mm
603	LX-JZ0002AWFD	J AA	Screw,ø3×10mm
604	LX-JZ0010AFFD	J AA	Screw,ø3×10mm
605	LX-JZ0039AFFD	J AA	Screw,ø3×12mm
606	LX-LZ0006AWZZ	J AC	Push Rivet
607	LX-TZ0019AFZZ	J AB	Screw,Special
608	XBBSD20P04000	J AA	Screw,ø2×4mm
609	XBPSD26P05JSO	J AB	Screw,ø2.6×5mm
610	XEBSD26P12000	J AA	Screw,ø2.6×12mm
611	XEBSD30P10000	J AA	Screw,ø3×10mm
612	XEBSD30P12000	J AA	Screw,ø3×12mm
613	XEBSF30P10000	J AA	Screw,ø3×10mm
614	XEBSF30P12000	J AA	Screw,ø3×12mm
615	XESSD30P10000	J AA	Screw,ø3×10mm
616	XJBSD30P08000	J AA	Screw,ø3×8mm
617	XJBSD30P10000	J AA	Screw,ø3×10mm
618	XJBSD30P14000	J AA	Screw,ø3×14mm
619	XJBSF30P08000	J AA	Screw,ø3×8mm
620	XJSSF30P10000	J AA	Screw,ø3×10mm
621	XWHJZ62-09510	J AB	Washer,ø6.2×ø10×0.9mm

SPEAKER BOX PARTS (CP-C471)

NO.	PART CODE	★ PRICE RANK	DESCRIPTION
900	92L10002C47110	J BG	Wood Box Cabinet Ass'y.
901	92L201L0C46210	J AV	Net Frame Ass'y.,Left
901	92L201R0C46210	J A V	NetFrameAss'y.,Right
902	92L200L0C47110	J A Z	Front Panel,Left
902	92L200R0C47110	J A Z	Front Panel,Right
903	92LPCAT1XL12	J A C	Holder,Catcher
904	92L303R0300110	J A N	SuperTweeterAss'y
905	92L3141 PC4621 0	J AL	SpeakerCord Ass'y
906	411 B840140B1	J A C	Screw,ø4×14mm
907	411B9301 OOP	J	Screw,ø3×10mm
908	92L44010213300	J AH	Port Cushion
909	92LG53-1203-08	J A D	WireCushion
910	92L6000C471WOO	J	Label,Specifications
SP1,2	VSP0013WBL06R	J B F	Woofer
SP3,4	VSP0050TB266R	J AW	Tweeter

SPEAKER BOX PARTS (GBOXS0006AWM6)

900	92L60-00-0150	J	Net Frame Ass'y
901	92L37-03-0010	J	Speaker Cord
902	92L32-01-0250	J AR	Bottom CabinetAss'y
903	92L33-01-0630	J AC	Label,Part Code
904	92L35-02-0070	J	Screw,ø3×20mm
905	92L35-02-0080	J	Screw,ø3×20mm
906	92L39-01-0010	J	Leg,Cushion
SP1	VSP0010PBV84S	J BB	Speaker,Full-range

SPEAKER BOX PARTS (GBOXS0007AWM6)

900	92L60-00-0160	J AW	Net Frame Ass'y
901	92L37-03-0040	J AN	Speaker Cord
902	92L32-01-0240	J AL	Bottom Cabinet
903	92L35-02-0070	J	Screw,ø3×20mm
904	92L33-01-0640	J AC	Label,Part Code
SP1,2	VSP0010PBV88S	J B D	Speaker,Full-range

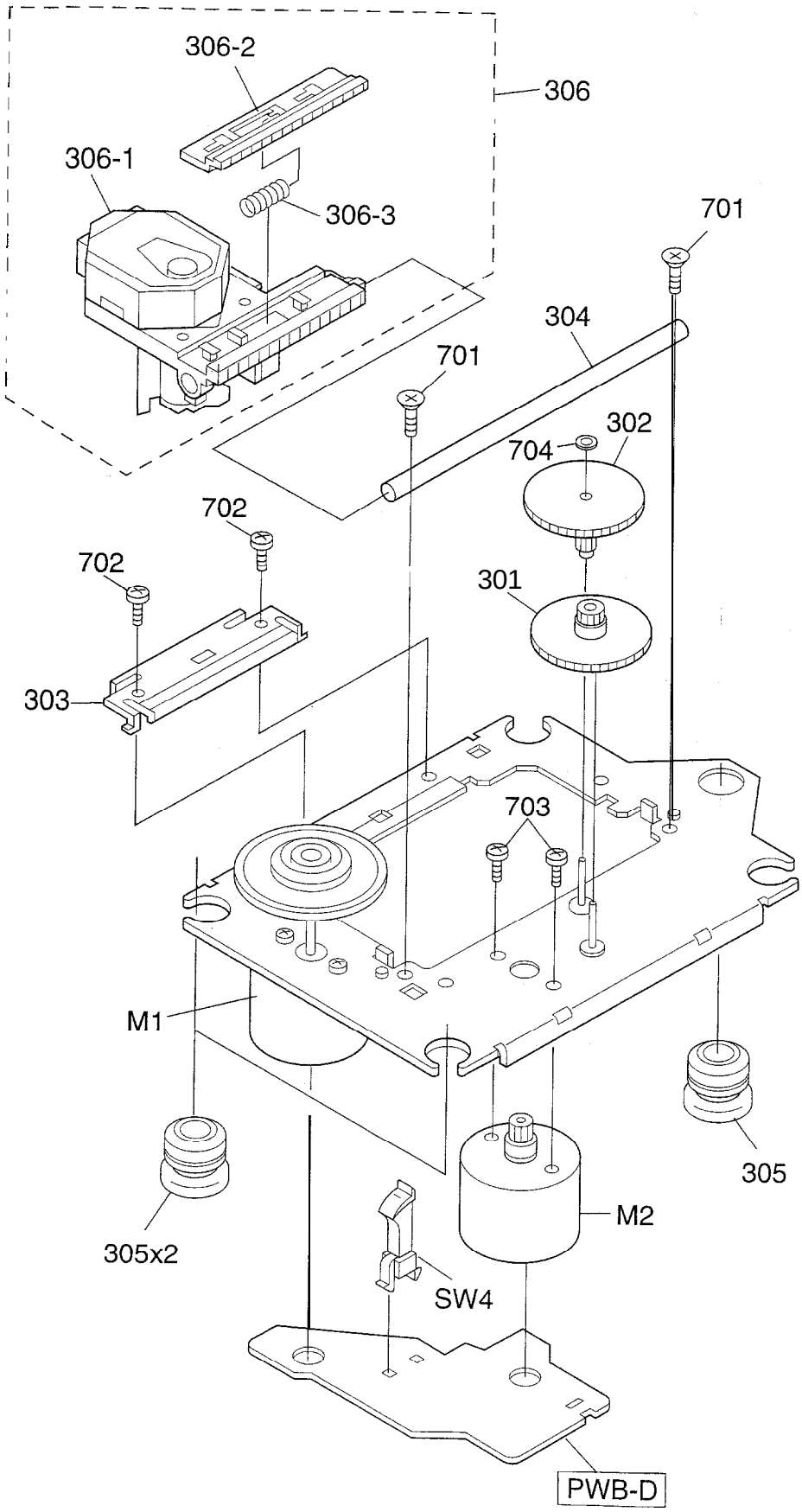
ACCESSORIES/PACKING PARTS

⚠	QACCB0002AW00	J AY		AC Power Supply Cord[For Hong Kong]
⚠	QACCE0005AW00	J AM		AC Power Supply Cord[Except for Australia/Hong Kong]
⚠	QACCL0002AW00	J AN		AC Power Supply Cord[For Australia/New Zealand]
	QANTL0006AWZZ	J AG		AM Loop Antenna
	SPAKA01 92AWZZ	J AP		Packing Add.,Unit
	SPAKC0674AWZZ			Packing Case [Except for Australia/New Zealand1
	SPAKC0679AWZZ	J AV		Packing Case [For Australia/New Zealand]
	SPAKP0013AWZZ1	J AC		Polyethylene Bag,Unit
	SPAKZ0383AWZZ	J AB		Sheet
	SPAKZ0438AWZZ			Bottom Pad
	TGANE0009AW06			Warranty Card [For Philippins]
	TGANZ0022AW05			Warranty Card [For Taiwan]
	TINST0039AWZZ			Operation Manual [For Thailand]
	TINSZ0326AWZZ	J AR		Operation Manual [For Australia/New Zealand]
	TINSZ0329AWZZ			Operation Manual [Except for Australia/New Zealand/Thailand]
	TLABE0250AWZZ	J		Label,Bar Code
	TLABG0002AWZZ	J AB		Label,Hong Kong
	TLABR1001AWZZ			Label,Bar Code
	TLABZ0460AWZZ			Label,Packing Case [For Taiwan]
	TLABZ0480AWZZ			Label,Packing Case [Except for Australia/New Zealand]
	TLABZ0481AWZZ			Label,Packing Case [For Australia/New Zealand1
	TLSTS0011AWZZ	J AB		S/S List [For Taiwan]
	TMAPCOI 15AWZZ			Schematic Diagram 1 [For Australia]
	TMAPC011 6AWZZ			Schematic Diagram 2 [For Australia]
	TMAPC01 35AWZZ	J AC		Schematic Diagram 3 [For Australia]
	UBATU0001 AWZZ	J AE		Battery,UM/SUM-3
	92LBAG1460C1	J AB		Polyethylene Bag,Accessories
	92LBAG1770A	J AB		Polyethylene Bag,AC Plug [For Hong Kong]
	92LBAG760C	J AA		Bag,Plug Adaptor [For Saudi Arabia]
⚠	92LCORDZ1652A	J AM		AC Power Supply Cord [Except for Saudi Arabia]
⚠	92LCORD577B	J AM		AC Power Supply Cord [For Saudi Arabia]
	92LF-ANT1746A	J AD		FM Antena
	92LGCARD1266E1	J AC		Warranty Card [For Australia]
	92LLABL1204C	J AA		Label,MADE IN MALAYSIA [For Australia/New Zealand/Brasil]
⚠	92LPLUG027	J AD		AC Plug Adaptor [For Saudi Arabia]
⚠	92LPLUG155A	AG		AC Plug Adaptor [Except for Saudi Arabia]
	92L41-05-0080	AL		Packing Add.,Front [Center and Surround Speaker]
	92L41-05-0090	AL		Packing Add.,Rear [Center and Surround Speaker]
	92L41-08-0120	AC		Polyethylene Bag,Surround Speaker
	92L41-08-0140	AB		Polyethylene Bag,Center Speaker
	92L6100C471 WOO	J		Label,Feature
	92L70032001600	J AC		Polyethylene Bag,Front Speaker
	92L71525003200	J AC		Sheet,Front Speaker
	92L720BPC46200	J AM		Packing Add.,Bottom,Front Speaker
	92L720TPC46200	J AM		Packing Add.,Top,Front Speaker
	92L74231121000	J AD		Shield Pad,Front Speaker
	RRMCG0152AWSA	J AU		Remote Control
	92LLID1782A	J AQ		Battery Lid,Remote Control

P.W.B. ASSEMBLY (Not Replacement Item)

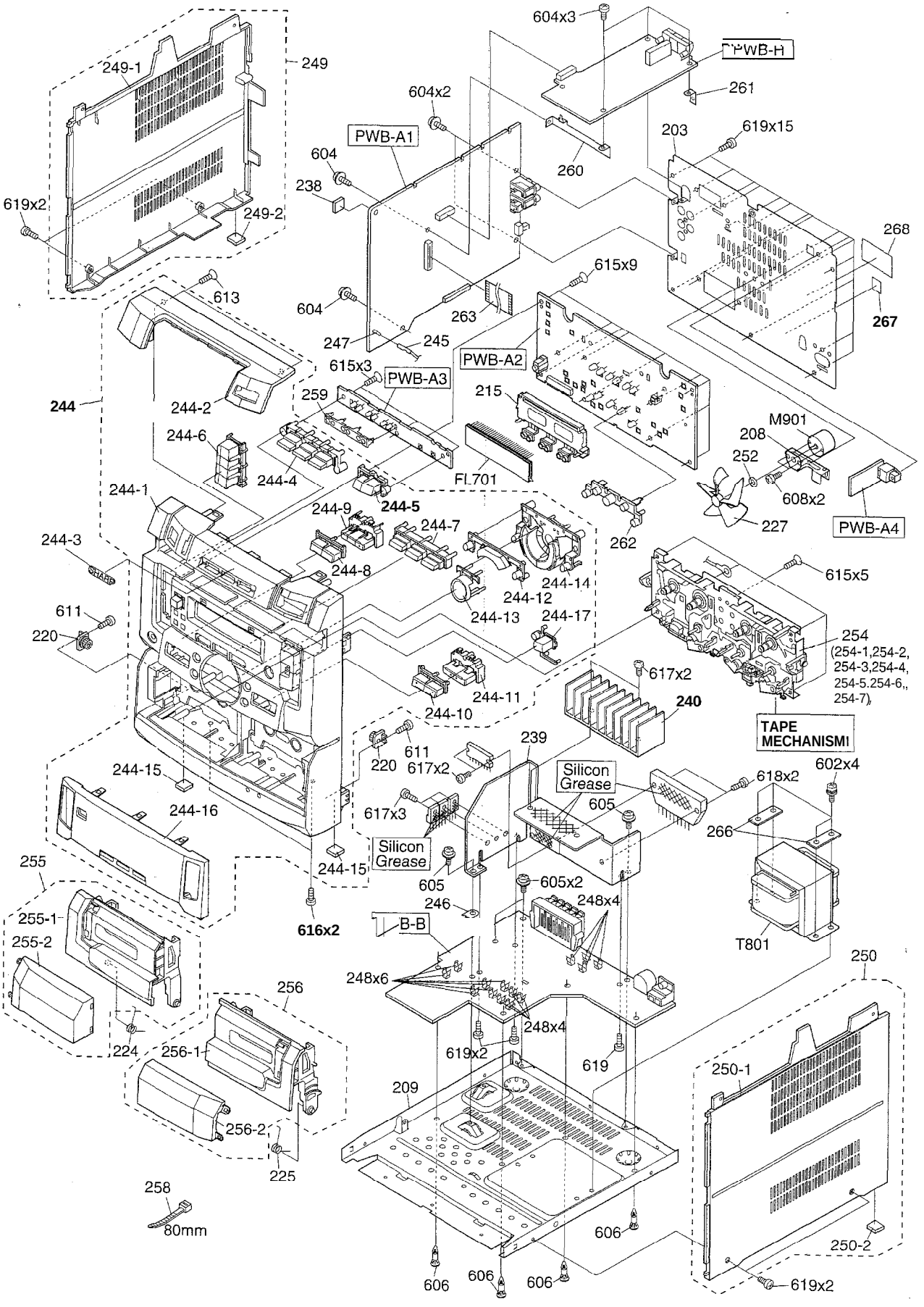
PWB-A1~4	92LPWB2916MANS	J	– Main/Display/Switch/Jack (Combined Ass'y)
⚠ PWB-B	92LPWB2916PWRS	J	– Power
PWB-C	92LPWB2891CDUS	J	– CD Servo
PWB-D	QPWBF0027AWZZ	J AD	CD Motor (PWB Only)
PWB-E	QPWBF0341AWZZ	J AB	Sensor (PWB Only)
PWB-F	QPWBF0314AWZZ	J AD	Tape Mechanism (PWB Only)
PWB-G	QPWBF0313AWZZ	J AB	Head (PWB Only)
PWB-H	92LPWB2916TUNS	J	– Tuner

CD-C471W



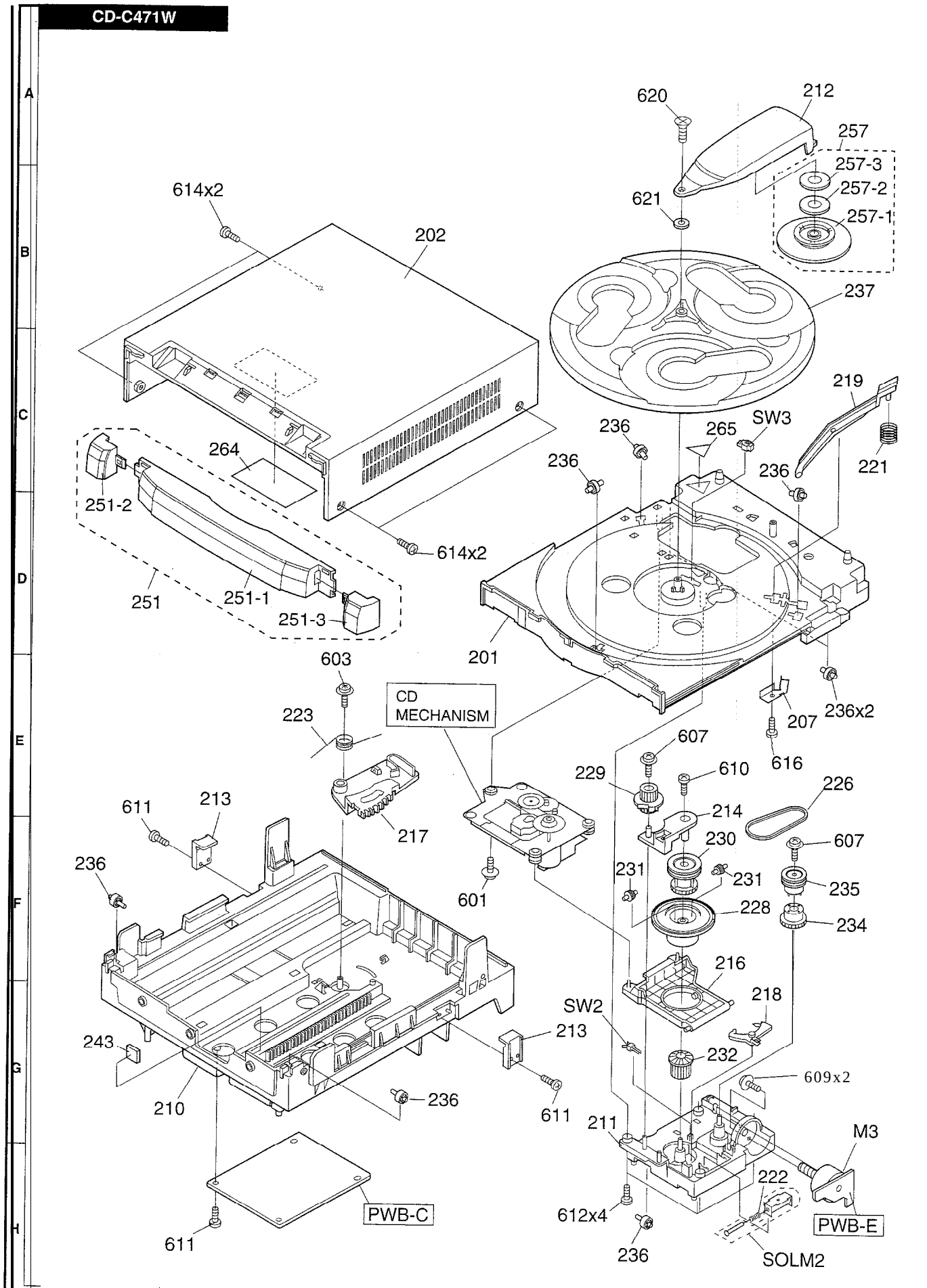
CD MECHANISM EXPLODED VIEW

CD-C471W



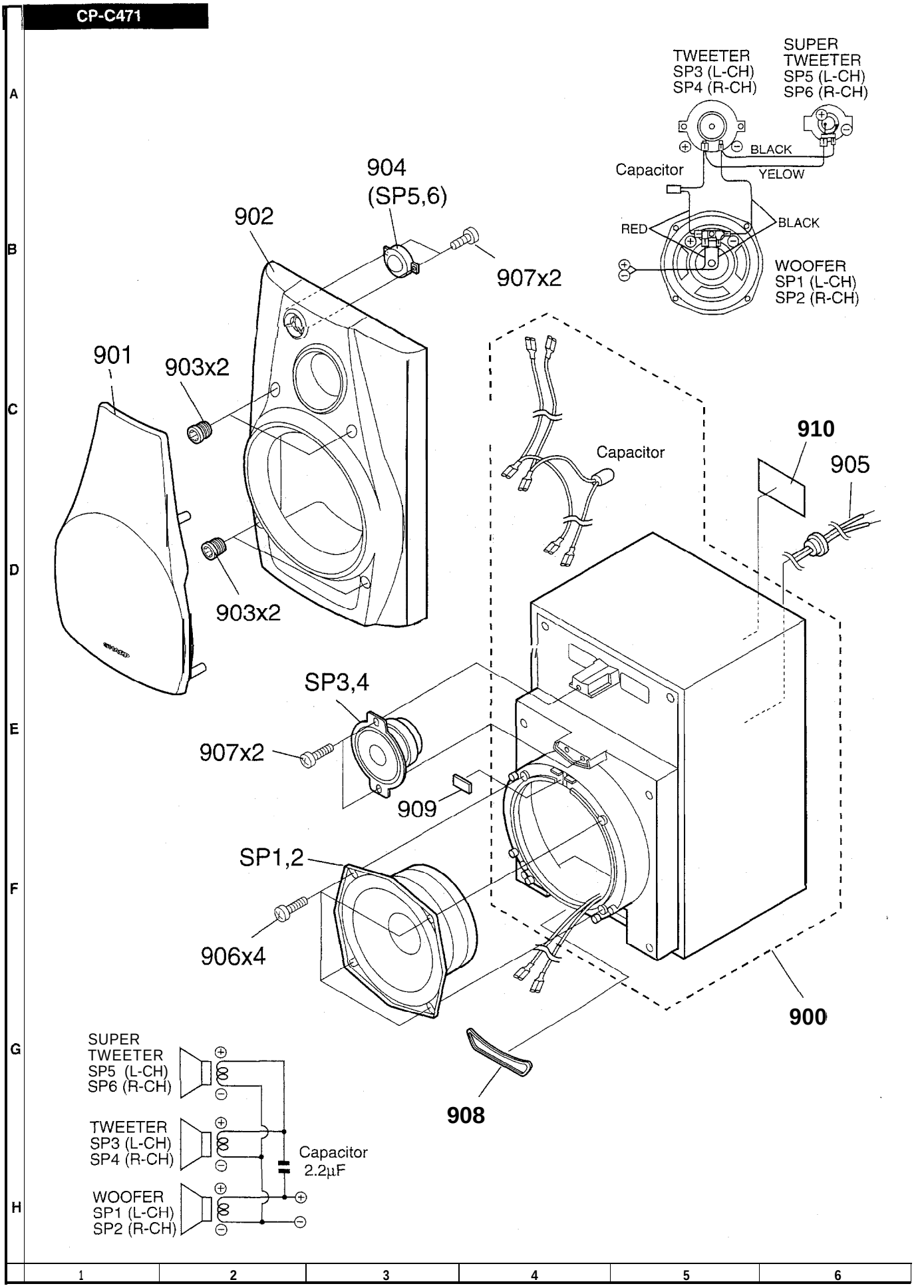
1 | 2 | 3 | 4 | 5 | 6

CABINET EXPLODED VIEW (1/2)



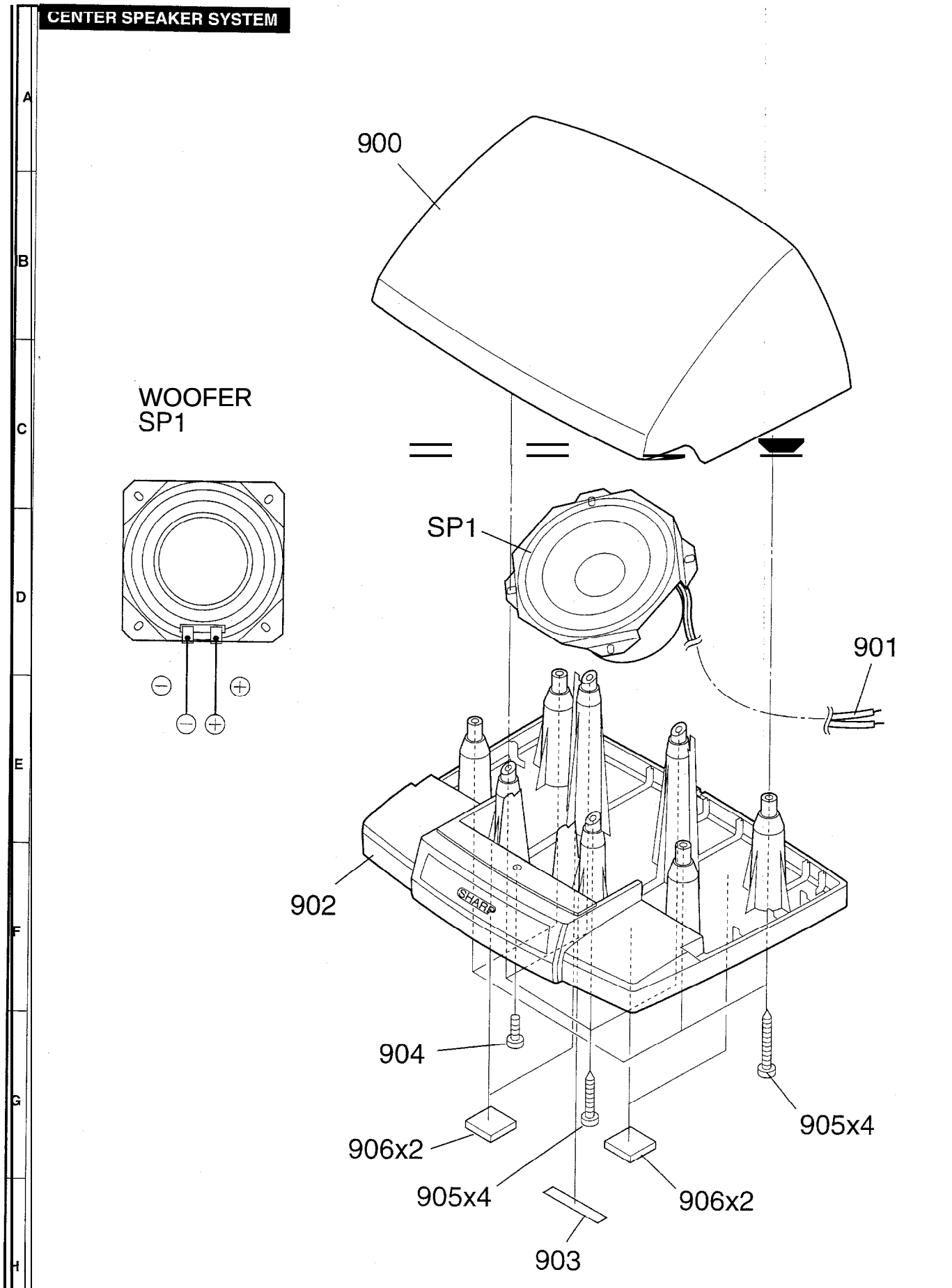
CABINET EXPLODED VIEW (2/2)

CP-C471



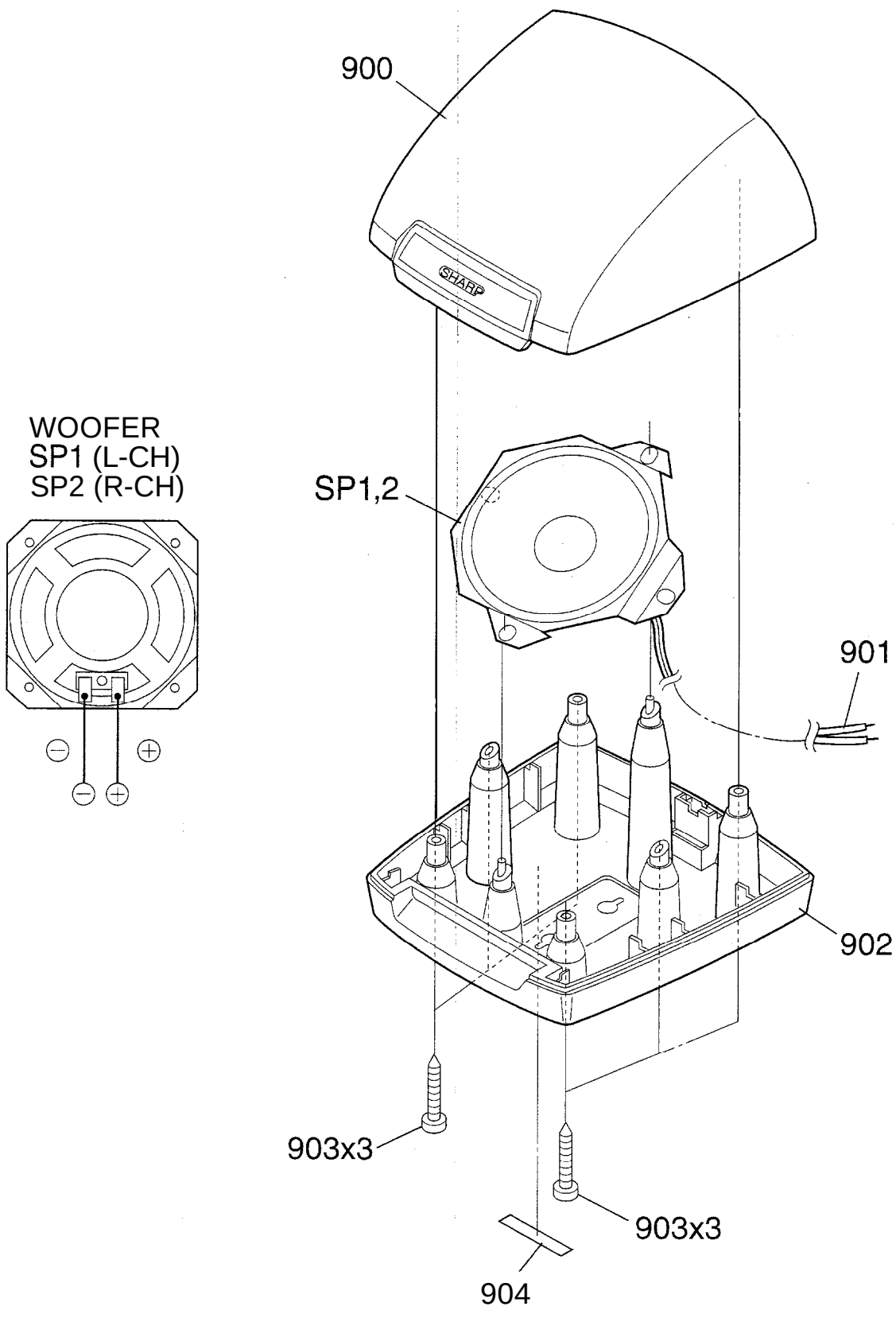
SPEAKER EXPLODED VIEW (1/2)

CENTER SPEAKER SYSTEM



SPEAKER EXPLODED VIEW (2/2)

SURROUND SPEAKER SYSTEM



SPEAKER EXPLODED VIEW (2/2)

MEMO

MEMO

CD-C471 W

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